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PHYSICAL OCEANOGRAPHY REPORT STD DATA FROM DRIFTING ICE
STATION FRAM 1(U) LAMONT-DOHERTY GEOLOGICAL OBSERVATORY
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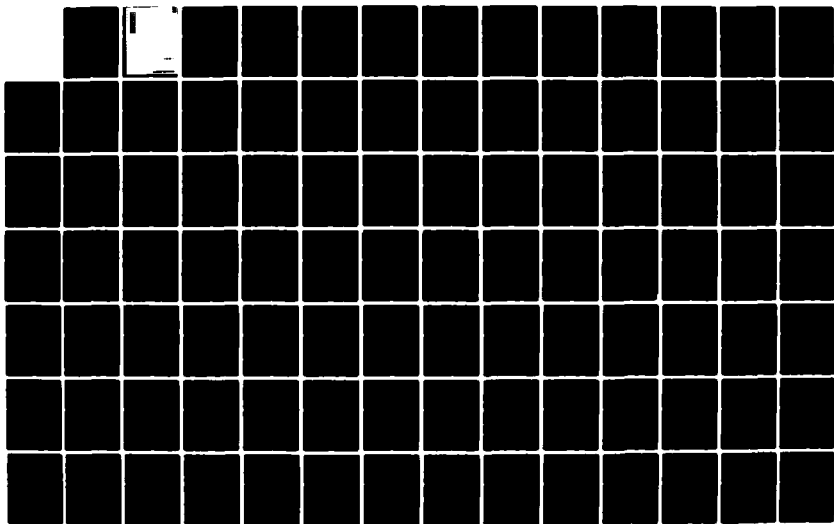
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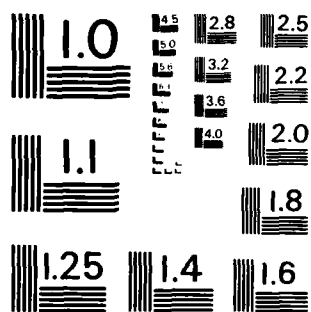
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PHYSICAL OCEANOGRAPHY REPORT

STD DATA FROM

DRIFTING ICE STATION FRAM I

prepared by

T.O. Manley, Werner Tiemann and Kenneth Hunkins

TECHNICAL REPORT

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Abstract

From April 29, 1979 to May 6, 1979 a total of 88 casts were made with a CTD (Conductivity, Temperature and Depth) instrument at the drifting ice station Fram I. Profiles were taken at least twice a day from the surface to 700 m and at more closely spaced intervals during special phases of the experiment. A separate helicopter C/STD survey was also conducted during the experiment and the resulting data were reported separately.

Data obtained from the camp-based Plessey 9040 CTD were simultaneously recorded digitally on magnetic tape and on analog charts. Profile data from the digital tapes were smoothed using a running average. Response time of the temperature sensor was corrected for thermal lag by varying a lag constant (τ) until descending and ascending parts of the cast on a T-S diagram were nearly congruent. No lag correction was applied to the conductivity data because of the rapid response time of the conductivity cell. A small drift that occurred when both sensors were stopped for bottle sampling was also taken into account during data reduction.

Static calibration of the temperature, conductivity and depth sensors was provided by bottle and reversing thermometer data. Least squares, best-fit polynomials, whose parameters were temperature (T), conductivity (C) and depth (D), converted the observed data to final data.

Standard level listings of temperature, potential temperature, salinity, sigma-t, specific volume anomaly, dynamic height and sound velocity are given for each cast along with plotted profiles of temperature, salinity and sigma-t. Nested profiles of temperature and salinity are also provided.

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Introduction

After completion of the Arctic Ice Dynamics Joint Experiment (AIDJEX) in the Beaufort Sea in 1976 which emphasized ice mechanics in the central pack, scientific interest grew in the eastern Arctic Ocean and the Eurasian Basin within which the waters of the Atlantic Ocean mix with those of the Arctic. Although the ice-free region off the coast of Svalbard in the eastern Arctic Ocean has been sampled frequently, and even the ice covered areas near Greenland have been sampled occasionally, few data have been collected in the Eurasian Basin north of the Fram Strait.

Beginning in 1979, the United States along with Denmark, Norway and Canada began a concerted effort to begin oceanographic and geophysical investigations in this relatively unexplored region of the Arctic Ocean north of Greenland by initiating the Fram series of experiments. These were designed to echo the drift of Fridtjof Nansen's specially designed ship, FRAM, which in 1893 was frozen into the pack ice of the New Siberian Islands and allowed to drift until it broke free of the ice in 1896. During this drift an unprecedented amount of data were collected over the deep ocean of the Eurasian Basin.

Fram I, the first of the four planned U. S. manned ice camps was established on March 11, 1979, at 84°24'N and 6°00'W (Fig. 1). During the next two months, until May 13th when data collection ended, studies in chemical and physical oceanography, low-frequency underwater acoustics, geophysics and the mechanics of wave propagation through sea ice were successfully completed and results of some of these investigations have been published (Kristoffersen, 1979; Hunkins et al., 1979a, b).

It was the goal of the Lamont physical oceanography program to collect data which would help provide insight into the origin and effects of the steep

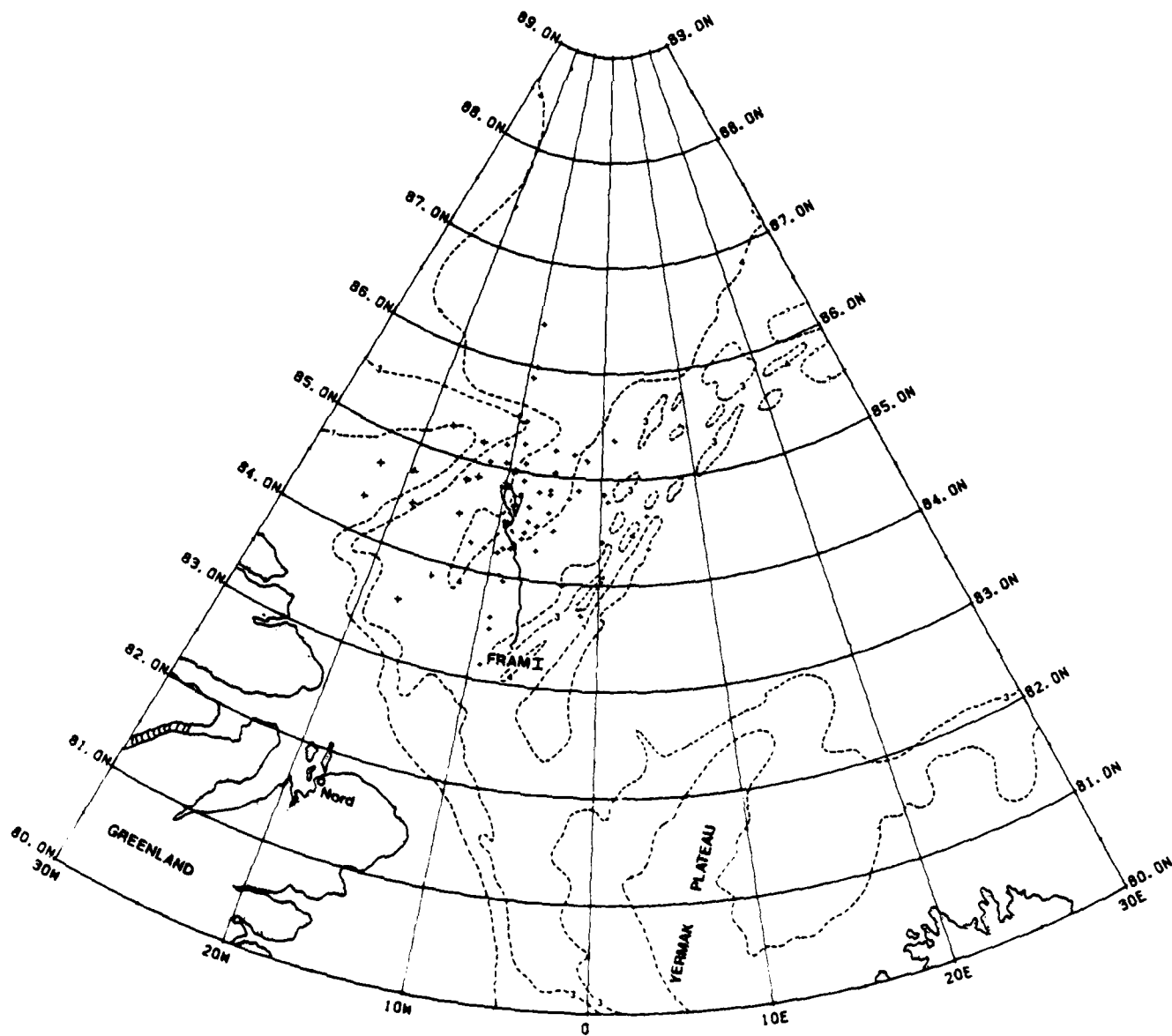


Fig. 1 - Drift track of Fram I and positions of helicopter ODE/C/STD stations superimposed on the bathymetry of the Arctic Ocean.

pycnocline that lies directly beneath the mixed layer (50 m) and the upper extent of the Atlantic water (200 m). Current theory suggests that this pycnocline layer results from the formation of ice during wintertime on the shelves surrounding the Arctic Ocean. The resulting cold, saline shelf water is then later advected into the Arctic Ocean on layers of constant density between 50 m and 200 m. It was also hoped that the program would collect data which might reveal the unique salinity and temperature structures characteristic of the mesoscale eddies reported from the central regions of the Beaufort Sea (Manley, 1981). To accomplish these goals, both helicopter-portable and camp-based CTD's were utilized to collect data.

The area of observations was expanded by using a portable C/STD (Ocean Data Equipment model 202) along with a Bell 204 helicopter to take casts up to 150 km away from the main camp. Nominal sampling depths during these surveys were 270 m. Figure 1 shows the drift track of Fram I and the locations of the portable C/STD stations superimposed on the bathymetry of the Arctic Ocean. Data from these stations currently reside at NODC, and were reported on by McPhee (1980a, b).

The camp-based CTD (a Plessey model 9040) was used to sample the salinity and temperature structure to a depth of 700 m at least twice a day. During selected times, more frequent observations were taken to gain more information on the variability of fine structure and to provide concurrent observations at those times when the helicopter C/STD was actively taking stations. This report pertains only to this camp-based data.

Physical Oceanography Program

Upon completion of the basic operations of establishing camp, a $1\frac{1}{2}$ m by $1\frac{1}{2}$ m hydrohole through which the CTD would be lowered was cut through the 2 m thick ice floe. An small heated hut was then constructed over the hydrohole. The CTD, a small gas-powered winch holding 750 m of cable and associated electronic equipment were then assembled inside the hut as an integrated unit.

A General Oceanics rosette system holding 12 Niskin bottles was also used with the CTD in order to obtain water samples and reversing thermometer data. Water samples taken during the experiment were later analyzed in a single batch using a Guildline Model 8000 salinometer. Originally, the salinometer was located in the CTD hut, but because heat generated from the gas powered winch caused large ambient temperature fluctuations and made it difficult to maintain the water bath temperature in the instrument, the salinometer was moved to another hut which provided the necessary environment for proper operation.

A minimum of two CTD casts were conducted each day to a nominal depth of 700 m. More casts were taken 1) if interesting features within the water column were observed, or 2) to supply concurrent information at the camp when the helicopter C/STD was on a survey. Data pertaining to each cast were recorded digitally as well as on an x-x-y analog chart recorder. Camp-based CTD stations were abruptly terminated when a sheet of ice from a nearby lead unexpectedly underthrust and closed off the hydrohole toward the end of the experiment. At that time a total of 88 casts had been taken at Fram I. The sensor unit was being lowered when the hole was closed and considerable effort was necessary to extricate it. Although the instrument was finally recovered without damage, the hole was unusable. Figure 2 shows a more detailed plot of the drift track of Fram I, and Figure 3 shows the positions of the casts and their numbers along the drift track.

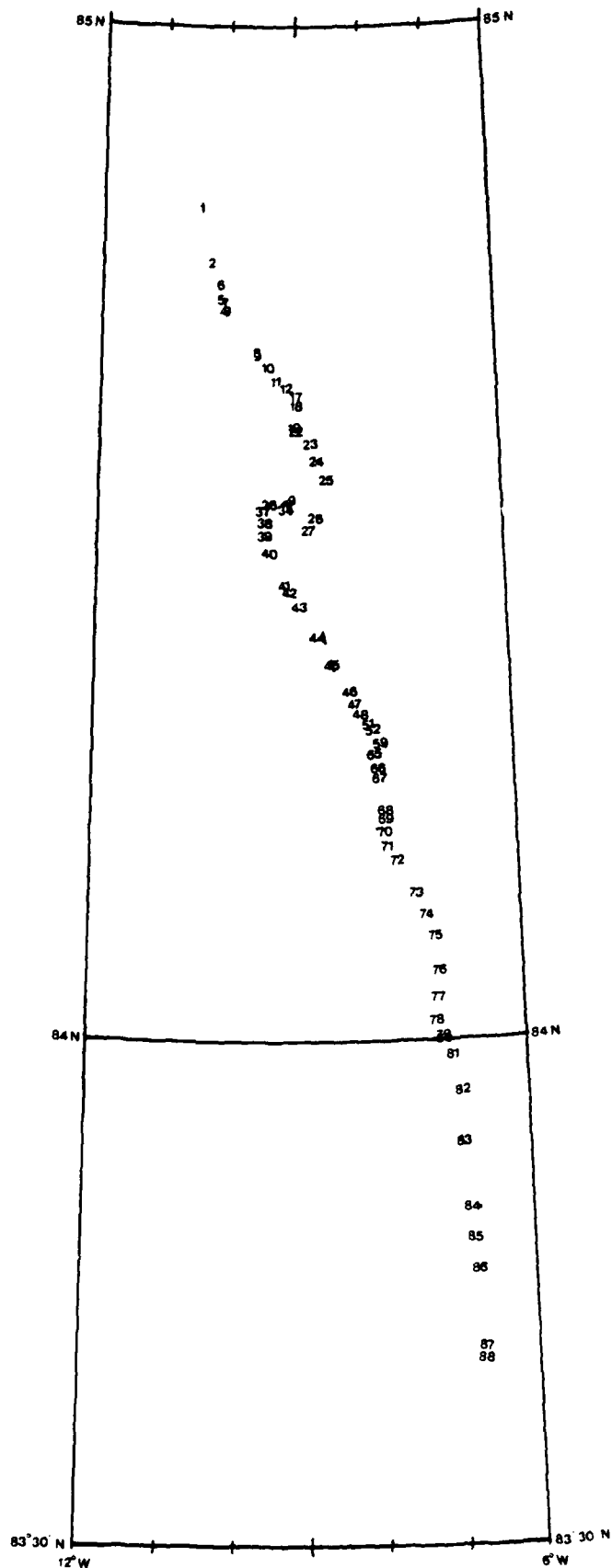


Fig. 3 - CTD cast numbers along the drift track of Fram I.

Dynamic Calibration

Figure 4 shows the flow of the CTD data processing stages. Initial screening of the raw data to remove spikes and discontinuities was done by computer so as to keep the data in a time series to correct for temperature lag. Bad data were either replaced by interpolated data or, if extensive, the time series was terminated and restarted when good data were again available. Thus, some gaps appear. Smoothing was done by applying a 3-point running mean to the temperature and salinity data and a 7-point running mean to the depth data. The larger depth window was chosen because of the relation between digital resolution of the depth channel (0.3 m) and the slowest lowering rate.

In general, the dynamic response characteristics of a CTD sensor depend primarily on the time constant of the temperature compensation probe since that of the conductivity cell is negligible by comparison. In practice, however, although the probe constant for the model 9040 CTD is quoted as 0.35 seconds by the manufacturer, analysis of output data by different investigators using different methods has yielded estimates ranging from about 0.2 to 3.0 seconds. (Scarlet, 1975; Goulet and Culverhouse, 1972). Apparently, a certain variability can also result when the same method is applied to different sensors under different conditions.

The bias associated with the dynamic response of individual sensors is, in fact, detectable and a method which aims at compensation has been incorporated in the data reduction procedure. The screened, smoothed raw data are retained as an evenly spaced time-series in conductivity, temperature and depth (C, T, D) so that the time-rate-of-change of sensed temperatures ($\partial T / \partial t$) can be computed.

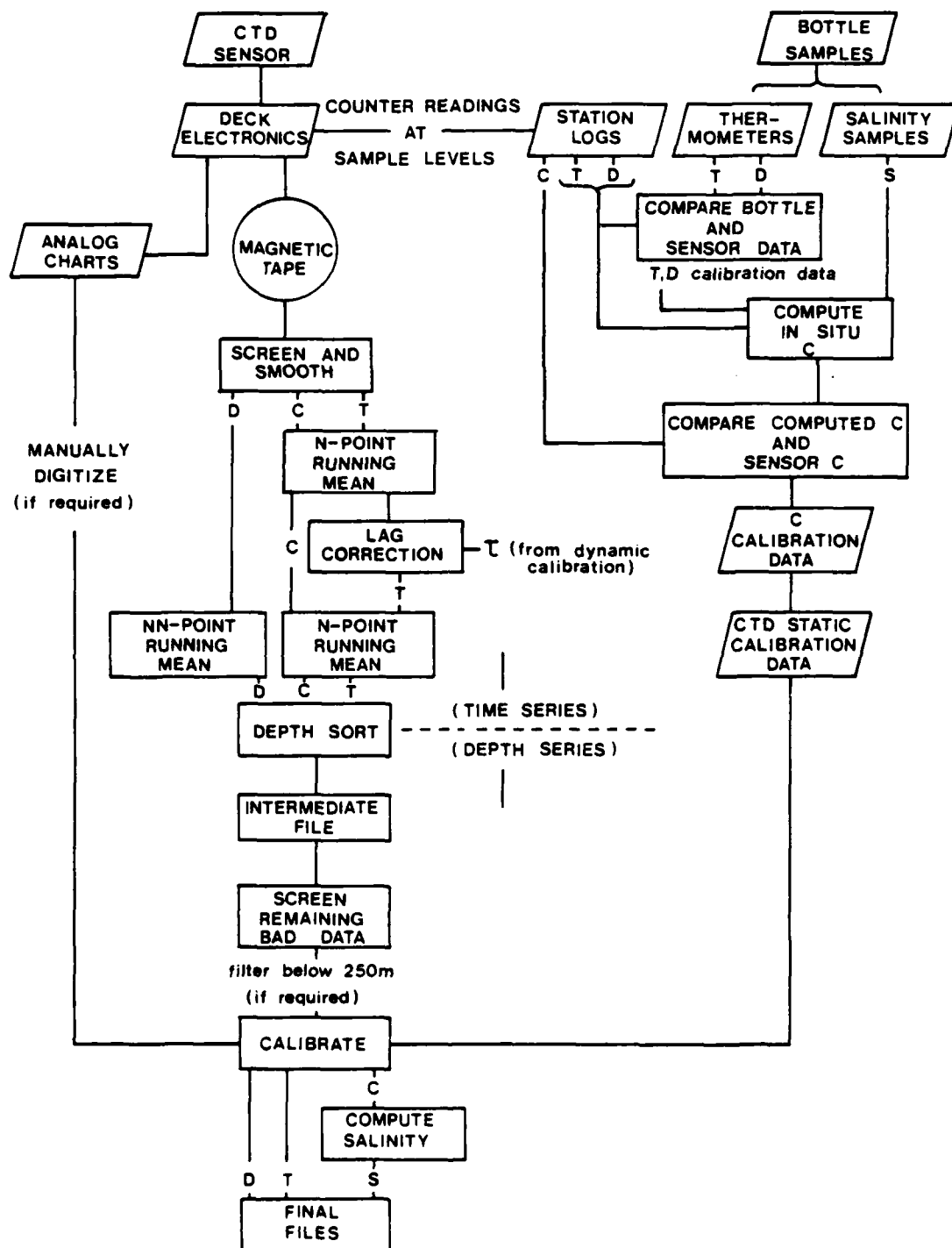


Fig. 4 - CTD Calibration Flow Diagram.

A correction for the time response lag of the temperature sensors is then applied to temperature before the series is sorted for increasing depth. The correction is based on the assumption (suggested by Scarlet, [1975]) that response is exponential with a time constant, τ , such that

$$T' = T + \tau \frac{\partial T}{\partial t} \quad (1)$$

where T and T' are the sensed and corrected parameters, respectively. The major source of error is in the computing of $\partial T / \partial t$. DDL (digital data logger) resolution in temperature is $\pm .003^\circ\text{C}$ but this may be degraded somewhat by noise. However, careful consideration of the sample rate and the range for smoothing and computing the temperature slope can give a workable computer approximation of equation 1. Once the correction model is established, we can return to the data for an estimate of what τ should be.

A typical STD profile of the water column in the Fram I area is shown in Figure 5. The trace is relatively free of the "spiking" normally associated with accelerations of a ship's motion and rapid drop rates of a ship-launched cast. What is usually produced, however, is an apparent offset, primarily in salinity, which is related to the response lag of the temperature sensor and which is sustained until the temperature gradient subsides. Dantzler (1974) in particular has pointed out the importance of this kind of systematic error. A typical raw data printout will show the onset of an interface as two distinct events, one in conductivity and then one in temperature lagging one or more scan intervals behind. (Scan intervals were generally 0.5 sec; occasionally 0.1 or 1.0 sec.). Downtrace and uptrace T-S diagrams of the same profile were compared for a number of stations while the time constant τ was adjusted so as to minimize the offset between traces (Bauer, et. al., 1980a, b, c, d).

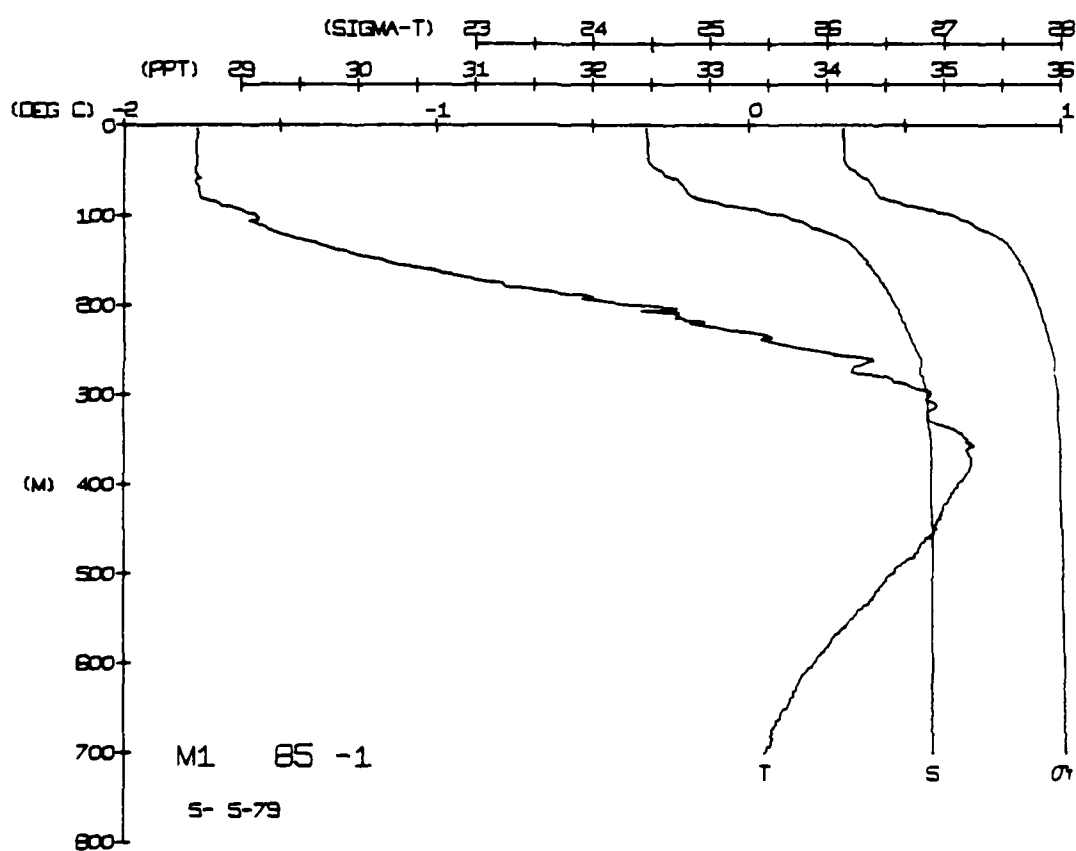


Fig. 5 - Normal S-T- σ_t profiles from Fram I.

This approach is readily implemented as a calibration procedure using a CRT computer terminal to monitor T-S diagrams. The time constant for the correction model is adjusted at selected station intervals in the data set to compensate for observed trends in the sensor response. Results for this instrument indicated a best temperature lag coefficient (τ) to be 0.5 sec which is consistent with the coefficient determined during the AIDJEX Experiment for this instrument (Bauer, et. al., 1980a).

The extent to which the τ value can be interpreted as a valid indication of sensor dynamic response depends, of course, on certain assumptions. The intermediate scale features are regarded as unchanged over the lapse of time (generally one hour) between downtrace and uptrace of any given station. Moreover, short-term changes would cause erratic adjustment of τ , and this is not observed. The assumption that response lag in temperature is the dominant cause of offset between downtrace and uptrace also ignores other kinds of hysteresis and the effect of mixing by movement of the instrument package through the interface. In the case of mixing it might be proposed that the maximum effect occurs on the uptrace when the instrument wake precedes the sensors, entraining saltier water at the interface. The observed offset is toward lower salinity, however, and argues against the significance of this process.

Once the determination of τ was completed, uptraces were eliminated from the data set. As can be seen from equation 1, temperature lag corrections no longer become necessary as the temperature gradient becomes very small and varies smoothly with depth. Below 400 m temperature lag corrections rarely attain a magnitude of 0.0004°C , and in the vast majority of cases it is less than 0.002°C which is less than the resolution of the DDL temperature and salinity data. As a result, no temperature lag corrections were made below

400 m. It should be stressed, however, in other parts of the Arctic Ocean this step might not be applicable because of the dynamic structure of the temperature gradient above 1000 m.

The time lag corrections were then applied to the smoothed temperature data, and the data then sorted according to increasing depth.

CTD Static Calibration Procedures

Bottle data consisting of protected and unprotected thermometer readings, and salinity determinations from the water taken near the surface, the temperature maximum of the Atlantic Water and the bottom of the cast provided the bulk of the data necessary for the calibration of the conductivity, temperature and depth sensors. Recorded information pertaining to the output of the three sensors taken from the deck unit at the instant that the instrument was stopped provided the remaining data required for the calibration procedure. The information mentioned above was punched onto computer cards along with their appropriate station identification parameters and stored in the computer. Delta values between the recorded values and the bottle data were then calculated and stored on file along with the original input data.

Preliminary quality control checks were done on the calibration data after it had been stored on file. These checks consisted of looking for the delta values of temperature and depth outside a given tolerance range for each parameter. When data of this type were found, it became necessary to evaluate the validity of the values on the basis of technical logs and other possible sources of error, such as incorrectly punched input. In the majority of cases, an explanation for the excessive delta values was found and the data were repunched and again submitted to the data set. Of the 5 per cent of the calibration data set that required this special editing, less than 10 per cent of the data points were rejected because of technical problems.

Depth dependency of the various sensors within every calibration period was also calculated using least squares, best-fit polynomials. Their associated standard deviations and plots of the polynomial against the delta values were the criteria used to determine the polynomial of least degree that

would fit the data. In practice, the temperature sensor calibration was found not to be depth-dependent which agrees with previous work done with the Plessey CTD.

Depth, however, was always found to be quadratically depth-dependent. There were special cases for the depth and conductivity sensors where, depending on the number of points, linear to cubic fits were considered the best choice.

At the end of the calibration procedure, there were 3 delta functions for every point in time that would convert intermediate temperature and depth values to final calibrated data as shown in equation 2.

$$S_f = S_i = P_{sn}(d, t) \quad (2)$$

Using the polynomial equations for temperature and depth, it was then possible to calibrate the conductivity sensor.

The problem of conductivity calibration is two-fold: 1) to convert bottle data salinities obtained from the salinometer to in situ conductivities, and 2) to insure continuity between Plessey and salinometer conductivities before comparison.

To convert conductivities derived from salinometer measurements to salinities at the correct temperature and pressure observed by the sensor, the selection of a transfer equation (f), as shown by equation 3, was used:

$$c = f(s, t, p(z)) \quad (3)$$

where c = conductivity
 s = precise measurement of salinity (salinometer)
 t = actual temperature of water at depth z
 p = pressure at depth of observation, z .

All salinity data are currently based on lab salinometer results as computed by the Practical Salinity Scale, 1978.

Bottle data readings were placed in permanent files in the computer as described previously. Final equations for the calibration of temperature and depth were calculated prior to the conductivity calibration procedure. These values were required as input parameters to the reversed Practical Salinity Scale equation to accurately provide the in situ conductivity given the precise values of salinity, temperature and the depth of observation.

Delta values in conductivity were then calculated for all the bottle data in the CTD set. Once the calibration polynomial had been formulated for conductivity, it became a straightforward process to calculate salinity-temperature-depth data from the intermediate CTD data. The order of progression is very important and is as follows:

- a) correct temperature to produce final temperature, t_f
- b) correct depth to produce final depth, d_f
- c) correct conductivity to produce final conductivity, c_f
- d) compute salinity with Practical Salinity Scale-78 using t_f , d_f , c_f

Final conductivity values were not saved during the processing and are, therefore, not reported.

Subsequent Processing

Even though conductivity, temperature and depth had been converted into final calibrated data, errors still existed. A combination of several checks involving the plotting of the data in various forms and the sorting of various parameters revealed errors that were previously unnoticed.

The deletion of data while the sensors were in the hydrohole, where the water is unnaturally heated and freshened, and the addition of weather and position information for the individual stations were also a part of this procedure.

T-S diagrams were employed on large groups of stations to show stations which deviated from the mean. Stations that were flagged in this manner were rechecked for validity. If the data turned out to be in error and the error resulted from processing, the station was reworked from the point at which the error occurred.

Nested temperature and salinity traces plotted in this report were also a useful quality control to observe stations that did not follow the mean trends of the other plotted profiles. If a station was considered questionable, the original analog chart was used as the basis for the deletion or acceptance of the profile. Sequential sorting of the recorded dates and times of the stations was also done and stations that were out of order were resubmitted to the data set.

Temperature and salinity values taken while the sensor was in the hydrohole (ice thickness of 2 m) were then removed.

As a final indication of the quality of the salinity and temperature data, averaged values of the bottle and reversing thermometer at the various sampling depths are shown in the profiles as "x's" and "+s", respectively.

ACCURACY OF THE DATA

Tests were run to determine the accuracy of the DDL. The bottle data were used as the standard against which the final salinities and temperatures were checked. The final salinity and temperature data were then subtracted from the observed bottle data at the various tripping depths. Mean differences and associated standard deviations for conductivity and temperature were $.004 \pm .006$ and $.004 \pm .005$ respectively.

METEOROLOGY DATA

Periodic surface observations and continuous digital recordings of meteorological sensors at a fixed height above the surface of the ice were maintained at Fram I. From the original data, three-hourly averages of surface barometric pressure, and half-hourly averages of wind speed, and direction at 9.2 meters and air temperature at 7.8 meters above the surface were obtained for Fram I.

Data which were closest in time to each station were recorded along with the station data in permanent files on the computer (blanks implying no data available for that parameter).

POSITION ESTIMATES AND ASSOCIATED ERRORS

Filtered and smoothed estimates for position and velocity through time were computed from the original edited satellite navigation in a similar manner as that of Thorndike and Manley (1980a, b).

Position estimates were not regularly spaced in time nor did they correspond to the starting times of stations; thus reliable estimates of the position and ice velocity, as well as associated errors at the time of the CTD stations were made through quadratic interpolations in the same manner as that described by Manley et. al. (1980a, b, c, d), and Bauer et. al. (1980a, b, c, d). Normally, 25 to 30 position fixes were recorded per day, but this could rise to close to 60 and for a period of approximately 2 days the number dropped to zero.

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TABLE 1

STATION INFORMATION

In this section is a brief listing of all the CTD station taken on Fram I along with other pertinent information. A list of the terms and their meanings is shown below:

CAMP	Name of Camp
STAT	CTD Station
MODE	1 implies downtrace 2 implies uptrace
DAY	Day of Station
MON	Month of Station
YR	Year of Station
TIME	GMT Time of Station
CODE	Processing Code, see Table 2
JULDAY	Julian Day (decimal) of station
D. MIN	Minimum Depth (meters) of station
D. MAX	Maximum Depth reached at station
LATITUDE	Latitude of station in decimal degrees
LONGITUDE	Longitude of station in decimal degrees (- indicates west longitude)
LT. ERR	Error of Latitude Position in meters
LG. ERR	Error of Longitude Position in meters

TABLE 1

CAMP	STAT	MODE	DY	MON	YR	TIME	CODE	AJXDAY	D MIN	D MAX	LATITUDE	LONGITUDE	LAT FHR	LNG ERR
FRAM	1	1	29	MAR	79	2200	1	88	4	488	84	-10	9	7
FRAM	1	1	30	MAR	79	1627	1	89	10	700	84	-10	14	5
FRAM	1	1	31	MAR	79	1430	1	90	10	740	84	-10	34	8
FRAM	1	1	1	APR	79	1100	1	91	10	697	84	-10	29	0
FRAM	1	1	2	APR	79	1707	1	92	10	697	84	-10	12	3
FRAM	1	1	3	APR	79	1740	1	93	10	700	84	-10	26	0
FRAM	1	1	4	APR	79	1807	1	94	10	701	84	-10	63	0
FRAM	1	1	5	APR	79	1835	1	95	10	704	84	-10	20	4
FRAM	1	1	6	APR	79	1837	1	96	10	702	84	-10	13	0
FRAM	1	1	7	APR	79	1839	1	97	10	702	84	-10	02	4
FRAM	1	1	8	APR	79	1839	1	98	10	702	84	-10	02	4
FRAM	1	1	9	APR	79	1839	1	99	10	702	84	-10	02	4
FRAM	1	1	10	APR	79	1839	1	100	10	702	84	-10	02	4
FRAM	1	1	11	APR	79	1839	1	101	10	702	84	-10	02	4
FRAM	1	1	12	APR	79	1839	1	102	10	702	84	-10	02	4
FRAM	1	1	13	APR	79	1839	1	103	10	702	84	-10	02	4
FRAM	1	1	14	APR	79	1839	1	104	10	702	84	-10	02	4
FRAM	1	1	15	APR	79	1839	1	105	10	702	84	-10	02	4
FRAM	1	1	16	APR	79	1839	1	106	10	702	84	-10	02	4
FRAM	1	1	17	APR	79	1839	1	107	10	702	84	-10	02	4
FRAM	1	1	18	APR	79	1839	1	108	10	702	84	-10	02	4
FRAM	1	1	19	APR	79	1839	1	109	10	702	84	-10	02	4
FRAM	1	1	20	APR	79	1839	1	110	10	702	84	-10	02	4
FRAM	1	1	21	APR	79	1839	1	111	10	702	84	-10	02	4
FRAM	1	1	22	APR	79	1839	1	112	10	702	84	-10	02	4
FRAM	1	1	23	APR	79	1839	1	113	10	702	84	-10	02	4
FRAM	1	1	24	APR	79	1839	1	114	10	702	84	-10	02	4
FRAM	1	1	25	APR	79	1839	1	115	10	702	84	-10	02	4
FRAM	1	1	26	APR	79	1839	1	116	10	702	84	-10	02	4
FRAM	1	1	27	APR	79	1839	1	117	10	702	84	-10	02	4
FRAM	1	1	28	APR	79	1839	1	118	10	702	84	-10	02	4
FRAM	1	1	29	APR	79	1839	1	119	10	702	84	-10	02	4
FRAM	1	1	30	APR	79	1839	1	120	10	702	84	-10	02	4

TABLE 1 (cont'd)

CAMP	STAT	MODE	DY	MON	VR	TIME	CODE	AUXDAY	D	MIN	D	MAX	LATITUDE	LONGITUDE	LAT	ENR	LNG	ERR
FRAM 1	71	1	30	APR	79	1301	1	120 5424	3	0	697	5	84 18840	-7 91530	3	7	11	3
FRAM 1	72	1	30	APR	79	1312	1	120 8000	3	0	696	9	84 17390	-7 78710	0	0	11	2
FRAM 1	73	1	30	APR	79	1324	1	121 2265	3	1	697	4	84 17390	-7 53610	0	4	1	7
FRAM 1	74	1	1	MAY	79	1354	1	121 5375	3	1	698	8	84 14240	-7 53980	0	0	0	5
FRAM 1	75	1	1	MAY	79	1360	1	121 7917	3	1	704	1	84 12040	-7 33650	0	0	1	5
FRAM 1	76	1	2	MAY	79	1368	1	122 3097	3	0	699	1	84 09910	-7 24610	0	8	1	3
FRAM 1	77	1	2	MAY	79	1388	1	122 5681	3	0	699	1	84 06440	-7 27010	0	4	0	2
FRAM 1	78	1	3	MAY	79	1406	1	122 7958	3	0	698	1	84 03700	-7 29970	0	1	0	2
FRAM 1	79	1	3	MAY	79	1408	1	123 2951	3	0	698	1	84 00120	-7 24980	1	1	2	1
FRAM 1	80	1	3	MAY	79	1411	1	123 4222	3	0	698	1	83 99740	-7 22190	1	0	2	1
FRAM 1	81	1	4	MAY	79	1412	1	123 7993	3	0	698	5	83 98120	-7 20200	0	0	0	0
FRAM 1	82	1	4	MAY	79	1430	1	124 3000	3	0	697	4	83 95520	-6 97640	0	0	0	0
FRAM 1	83	1	5	MAY	79	1436	1	124 8125	3	0	700	2	83 83060	-6 91740	0	0	0	0
FRAM 1	84	1	5	MAY	79	1456	1	125 3305	3	1	700	1	83 80080	-6 87830	0	1	0	0
FRAM 1	85	1	5	MAY	79	1461	1	125 5285	3	1	704	0	83 77000	-6 83570	0	0	0	0
FRAM 1	86	1	5	MAY	79	1488	1	125 7694	3	0	698	6	83 69410	-6 76730	0	0	0	0
FRAM 1	87	1	6	MAY	79	1503	1	126 2938	3	1	698	6	83 66280	-6 76740	1	0	0	2
FRAM 1	88	1	6	MAY	79	1525	1	126 3924	3	1	698	6	83 66280	-6 76740	1	0	0	2

OUTPUT FORMAT OF FINAL DATA

This report contains salinity and temperature profile data from surface to 700 m taken at drifting ice station Fram I with a Plessey 9040 CTD.

Station information is provided in three different formats consisting of 1) monthly times series of nested temperature or salinity profiles, 2) numerical listings and 3) profiles of temperature, salinity and sigma-t ($T-S-\sigma_t$) versus depth.

Time series of temperature or salinity profiles to a maximum of 700 m nested into one month blocks are presented in "Results - Section 1". Station numbers are indicated at the end of each trace; all other labelling is self explanatory.

In general, two profiles of $T-S-\sigma_t$ are graphically shown on one page of the data report. On the facing page, the corresponding numerical listings of the station are shown. The numerical data consist of the parameters relating to the station and in some cases are abbreviated to save space. A listing of these abbreviated terms and their meanings can be found in Table 2. The main body of the numerical listings consists of values of temperature, potential temperature, salinity, sigma-t (σ_t), specific volume anomaly, dynamic height and sound velocity against various interpolated levels of depth. Since upper surface layer data are omitted from the data set (the sensor being in the hydrohole), surface readings of temperature and salinity are duplicated from the first data seen in the cast. The first and last data of the station are shown as one of the first values below the depth of 0.0 meters and the last values of the listing respectively.

Some station listings will show nothing for dynamic height. This implies that either the segment of missing data in the profile was too large to interpolate over, or only temperature or salinity data were available.

Average values of the bottle data at a particular depth level are also listed at the bottom of the data listing.

Corresponding profiles of temperature, salinity and sigma-t for the station listing are shown on the facing page.

The label at the end of each trace ($T-S-\sigma_t$) indicates the parameter of temperature, salinity and sigma-t respectively. Scales at the upper part of the diagram are labeled to correspond to the parameters and are also shifted with respect to one another to provide the maximum amount of clarity of the traces. Depth is in meters. Station identification and data are in the lower left hand corner in the following format:

M1 STN-MOD

MONTH - DAY - YEAR

where

M1 is the camp identifier for Fram I

STN is the station number

MOD is the mode

1 = downtrace

2 = uptrace

Salinity values obtained from the bottle data are plotted on the traces as an "X" and temperature values obtained from reversing thermometers are indicated on the traces as a "+".

TABLE 2

Definition and Meanings of Abbreviated Terms in the Station Listing

Station xxx (y)	Station number (xxx) and mode of trace (y) where:
CTD	Station taken with CTD y = 1 indicates downtrace y = 2 indicates uptrace
GMT	Times shown are Greenwich Mean Time
Code = I	Processing Code where if I =
	A) 1 + 5 profile contains both temperature and salinity data.
	1) data from magnetic tape
	2) data from manual digitization of analog charts
	3) subsequent filtering below 250 m in salinity only
	4) subsequent filtering below 250 m in temperature only
	5) subsequent filtering below 250 m in both temperature and salinity
	B) 11 + 13 profile is in salinity only
	11) data from magnetic tape
	12) data from manual digitization of analog charts
	13) filtered below 250 meters
	C) 21 + 23 profile in temperature only
	21) data from magnetic tape
	22) data from manual digitization of analog charts
	23) filtered below 250 meters
LAT	Latitude in decimal degrees N (North)
LONG	Longitude in decimal degrees W (West)
LTER	Estimate of positional error for latitude in meters
LGER	Estimate of positional error for longitude in meters
AIR TEMP	Air temperature in degrees C at 7.8 meters above surface of ice
BAROM	Barometric pressure in millibars, taken at surface
WIND	Wind direction in degrees true north, taken at 9.2 meters above surface of ice
SPEED	Wind speed in meters/sec., taken at 9.2 meters above surface of ice.

TABLE 2 (cont'd)

LISTING PARAMETERS

DEPTH	Depth in meters
TEMP	Temperature in degrees C
PTEMP	Potential temperature in degrees C
SALIN	Salinity in parts per thousand
SIG T	Sigma-t density where: density (ρ) = $1.0 + ((\text{Sig T}) * 1000.0)$
SPVOL	Specific volume anomaly ($\times 10^{-5} \text{cm}^3/\text{gm}$)
DYNHT	Dynamic height (dynamic meters)
SOUND	Sound velocity in meters/sec., calculated from Matthews equation

BOTTLE DATA LISTING

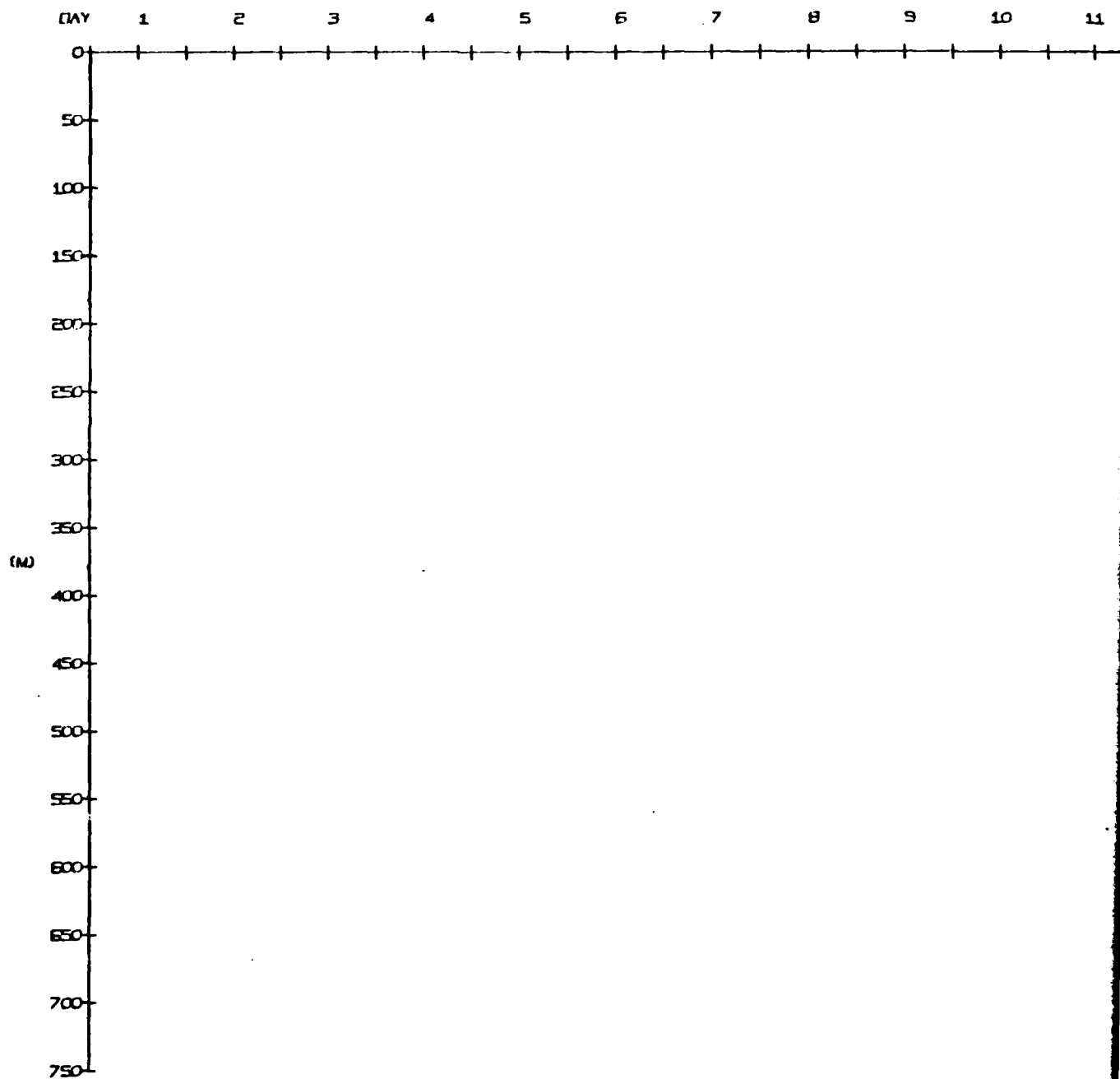
DEPTH	Depth in meters at which bottle was tripped
TEMP	Average temperature of reversing thermometer in degrees C
SAL	Determined salinity of water sample taken at depth indicated; in ppt

RESULTS

Section 1 (Nested Vertical Profiles)

This section contains the plots of temperature and salinity to a depth of 700 m nested into a monthly time series.

- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (-1.8 DEG. C.)
- TEMPERATURE SCALE SHIFTS RIGHT 1 DIVISION (0.5 DEG. C.) PER HALF DAY



TEMPERATURE PROFILES AT CAMP FRAM 1
MAR 1, 1979 TO MAR 31, 1979

11 12 13 14 15 16 17 18 19 20 21 22 23 24



1

2

20 21 22 23 24 25 26 27 28 29 30 31

3

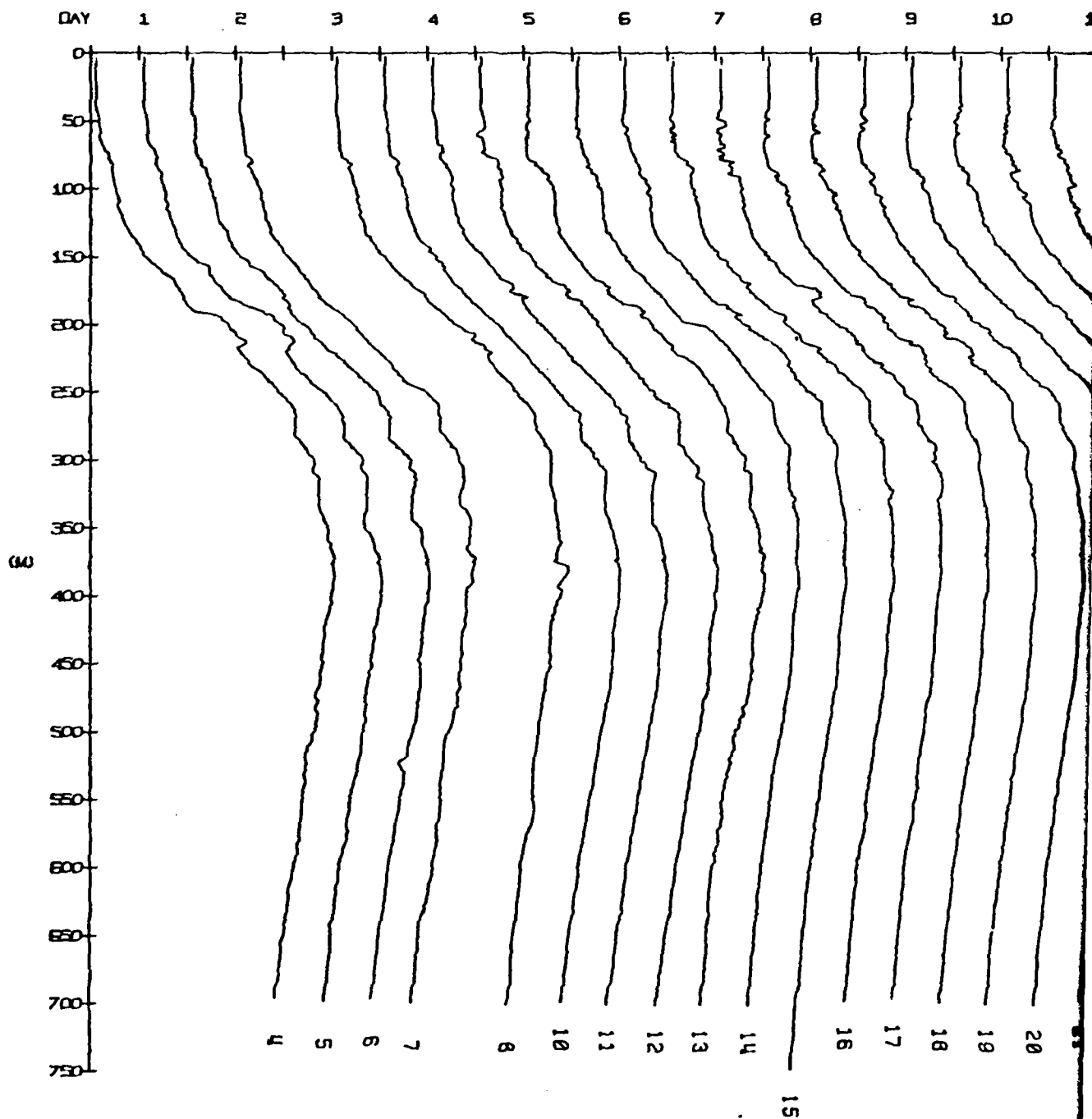
1

1

2

3

- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (-1.8 DEG. C.)
- TEMPERATURE SCALE SHIFTS RIGHT 1 DIVISION (0.5 DEG. C.) PER HALF DAY



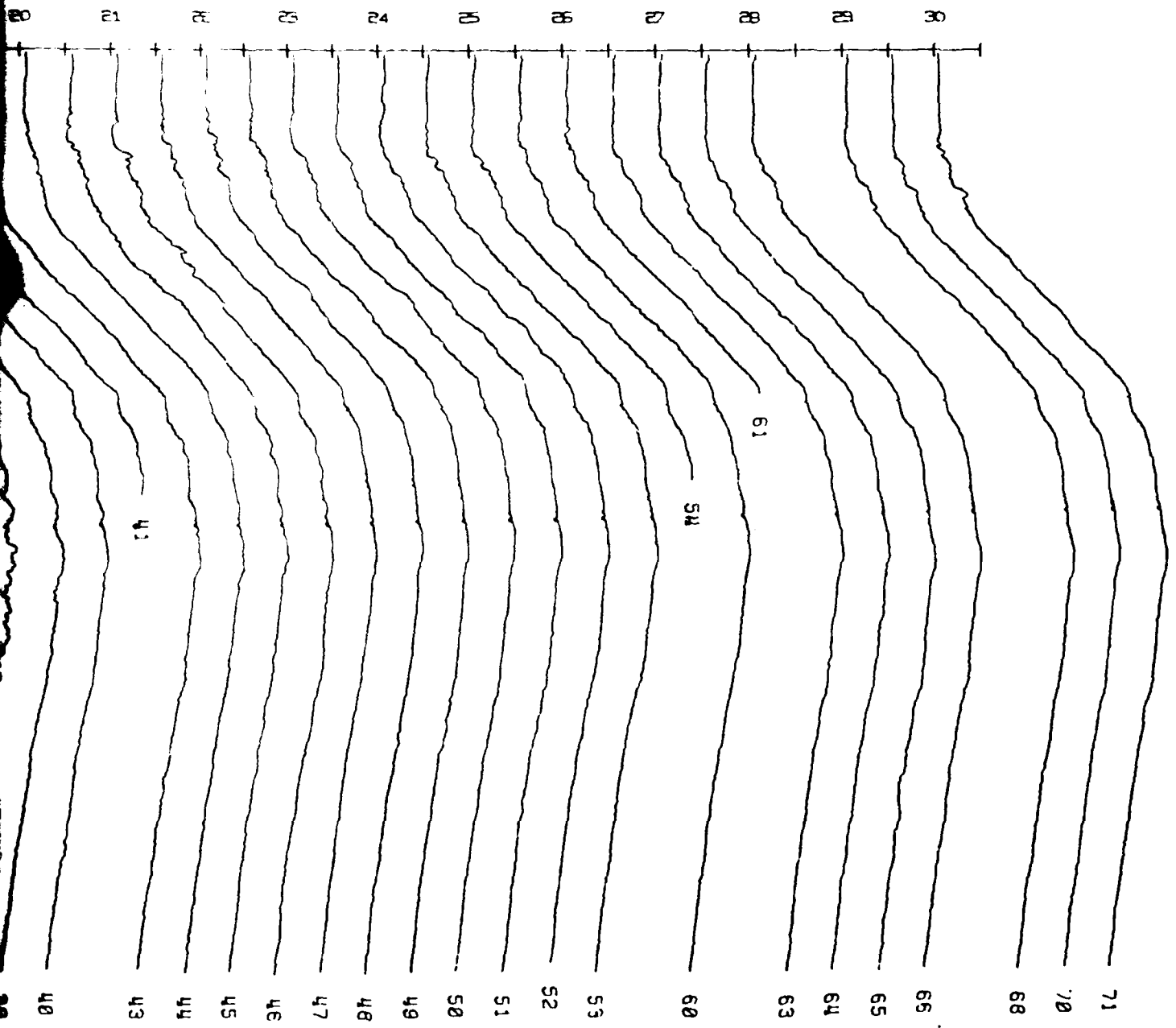
TEMPERATURE PROFILES AT CAMP FRAM 1 APR 1, 1979 TO APR 30, 1979

ITEM
1-1.8 DEG. C.
PER HALF DAY

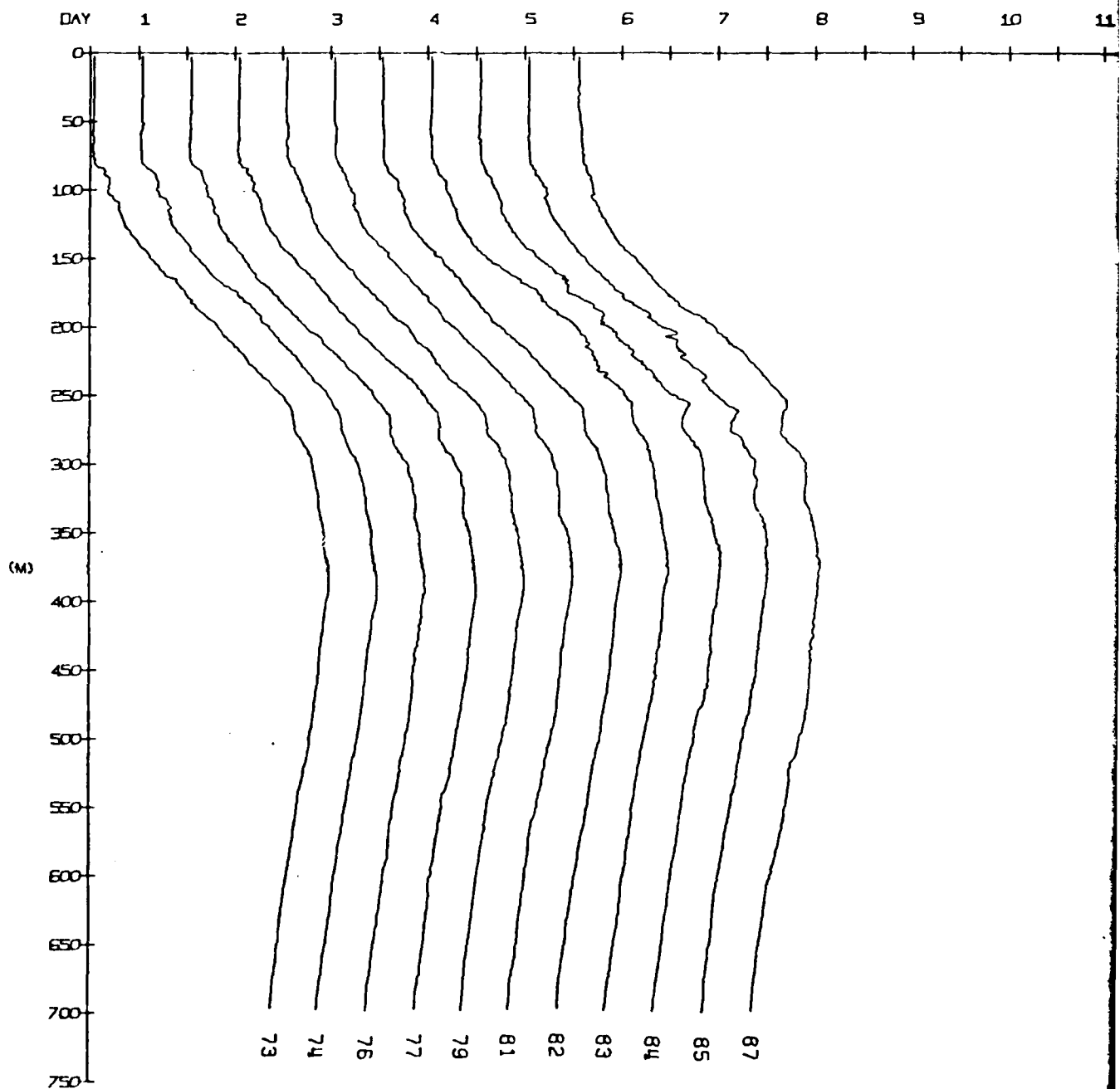
8 10 11 12 13 14 15 16 17 18 19 20 21 22

45
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41



- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (-1.8 DEG. C.)
- TEMPERATURE SCALE SHIFTS RIGHT 1 DIVISION (0.5 DEG. C.) PER HALF DAY



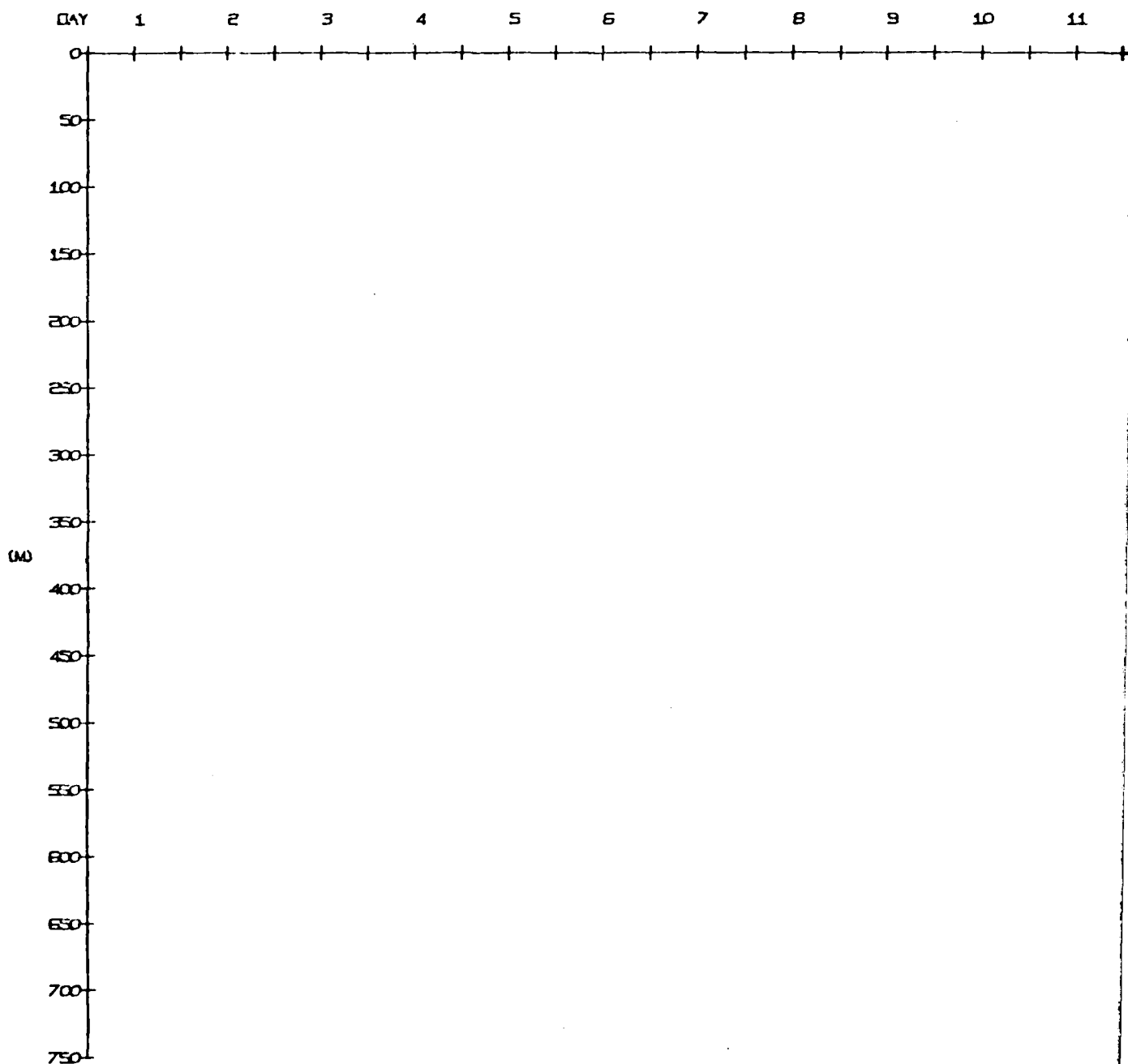
TEMPERATURE PROFILES AT CAMP TEAM 1
MAY 15, 1979 TO MAY 31, 1979

DEPTH
MILE DAY

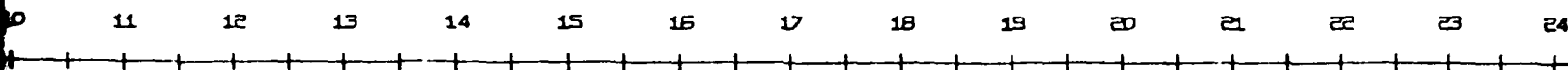
10 11 12 13 14 15 16 17 18 19 20 21 22 23

20 21 22 23 24 25 26 27 28 29 30 31

- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (30.0 PPT)
- SALINITY SCALE SHIFTS RIGHT 1 DIVISION (1.0 PPT) PER HALF DAY



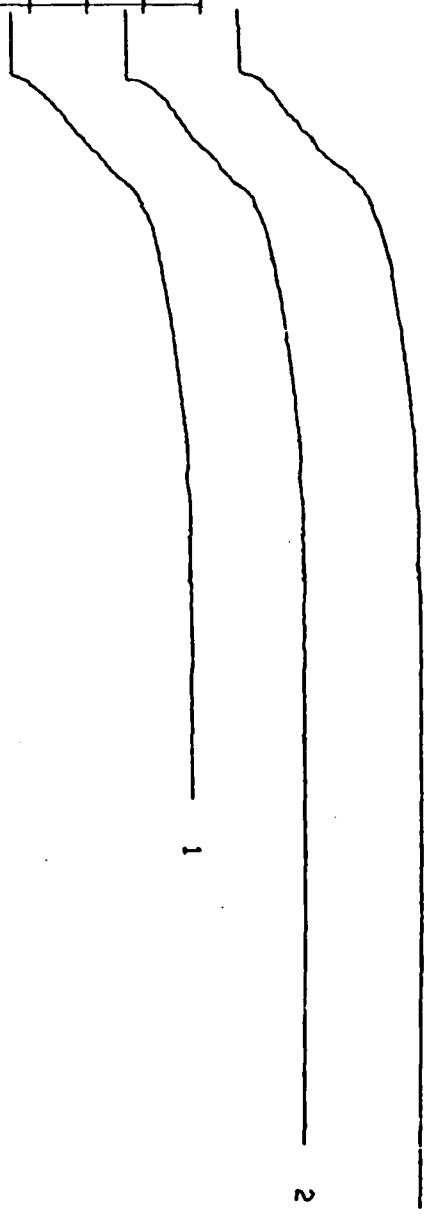
SALINITY PROFILES AT CAMP FRAM 1
MAR 1, 1979 TO MAR 31, 1979



N

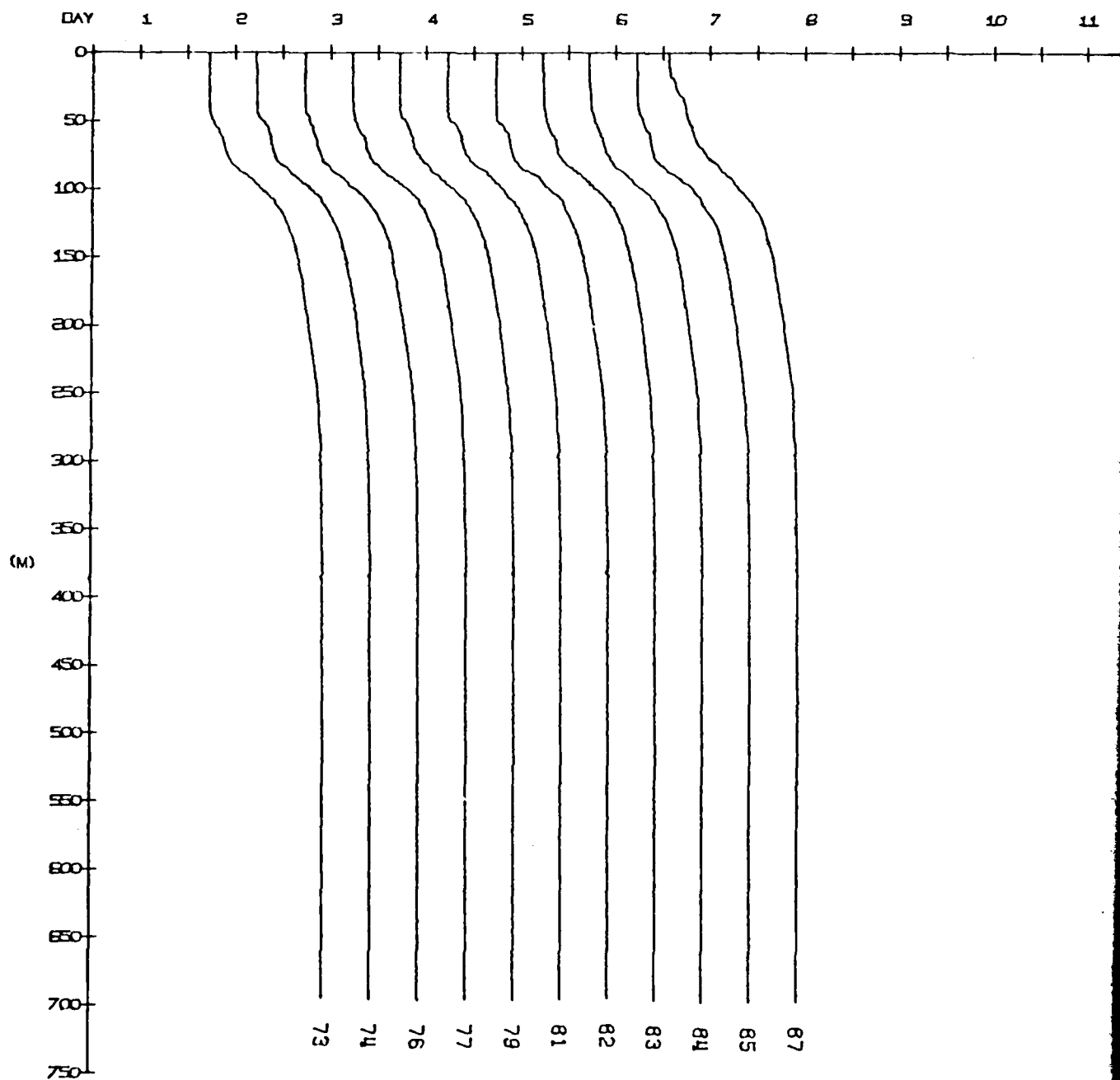
2

20 21 22 23 24 25 26 27 28 29 30 31



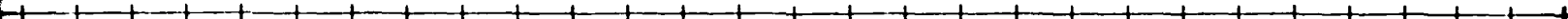
3

- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (30.0 PPT)
- SALINITY SCALE SHIFTS RIGHT 1 DIVISION (1.0 PPT) PER HALF DAY



SALINITY PROFILES AT CAMP FRAM 1
MAY 1, 1979 TO MAY 31, 1979

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

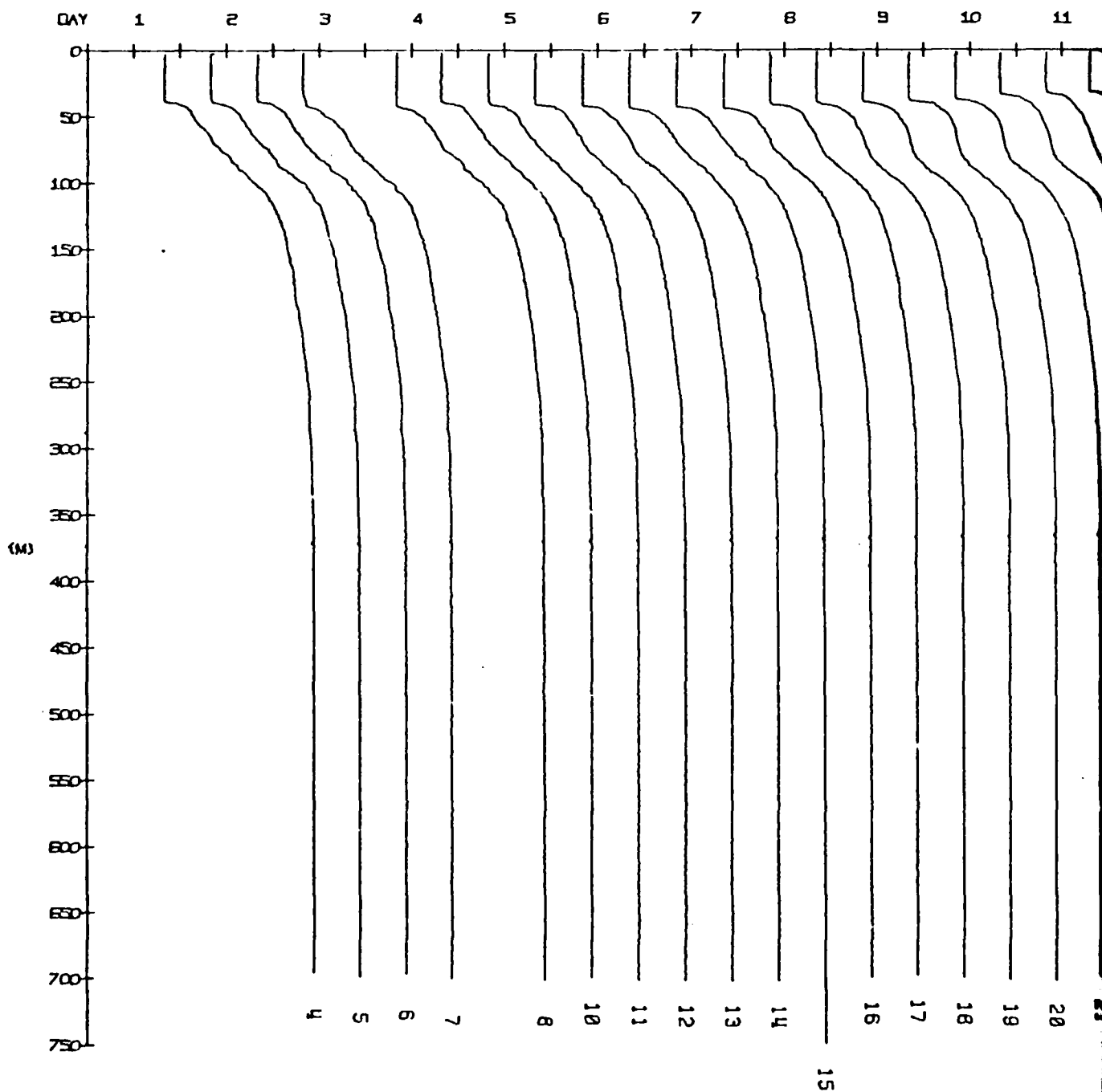


21 22 23 24 25 26 27 28 29 30 31

4

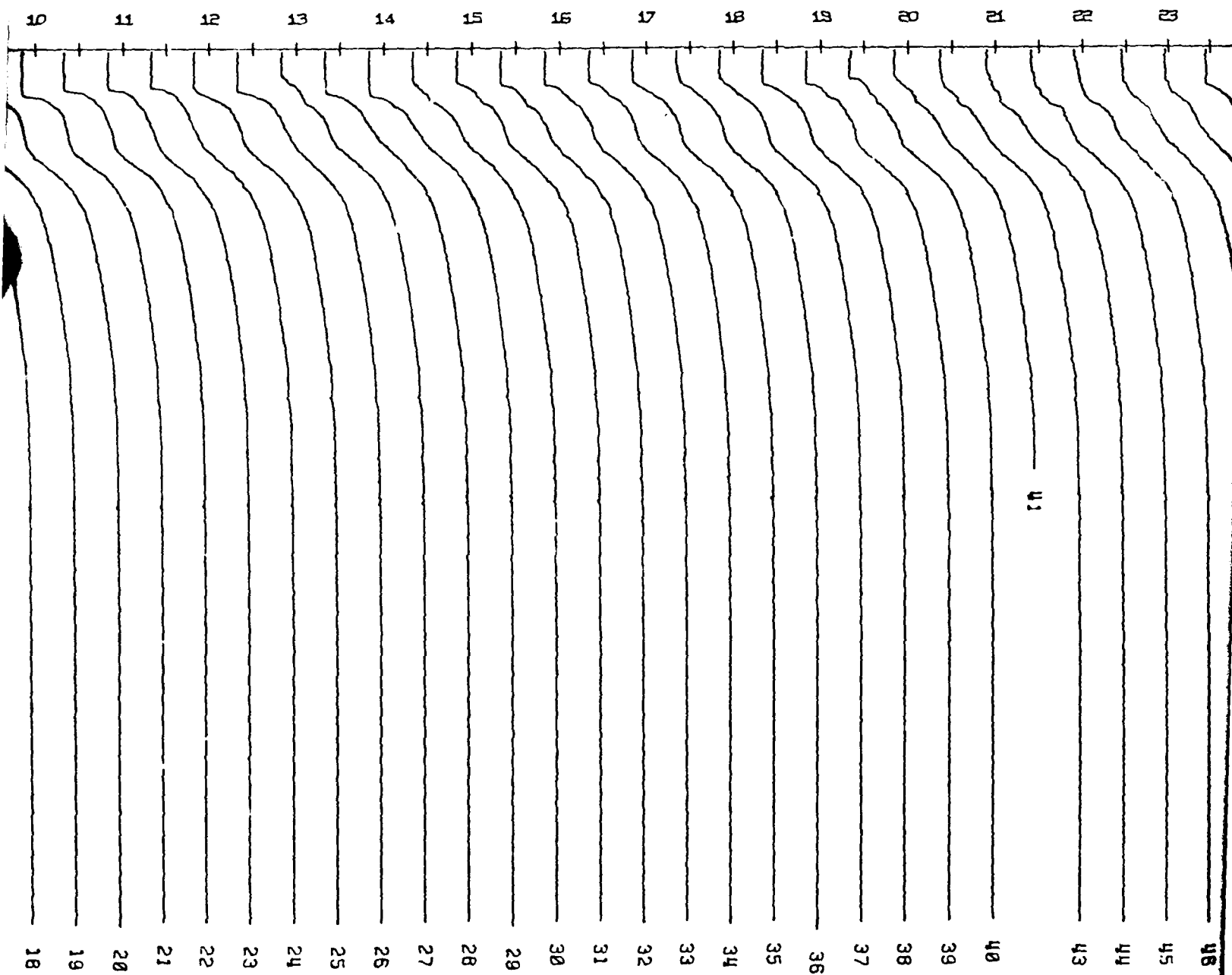
3

- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (30.0 PPT)
- SALINITY SCALE SHIFTS RIGHT 1 DIVISION (1.0 PPT) FOR HALF DAY

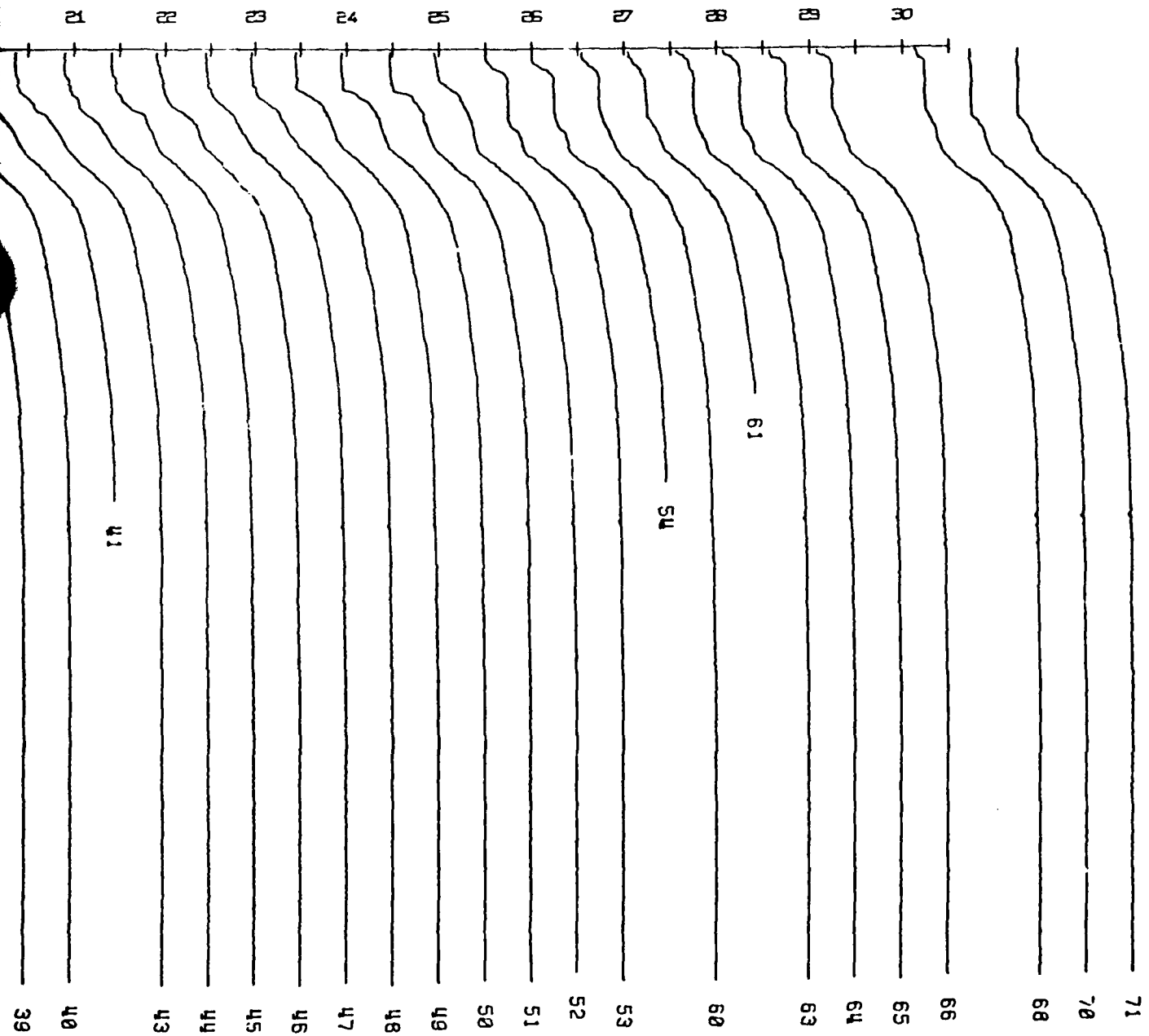


SALINITY PROFILES AT CAMP FRAM 1
APR 1, 1979 TO APR 30, 1979

7)



W



RESULTS

Section 2 (STD Data)

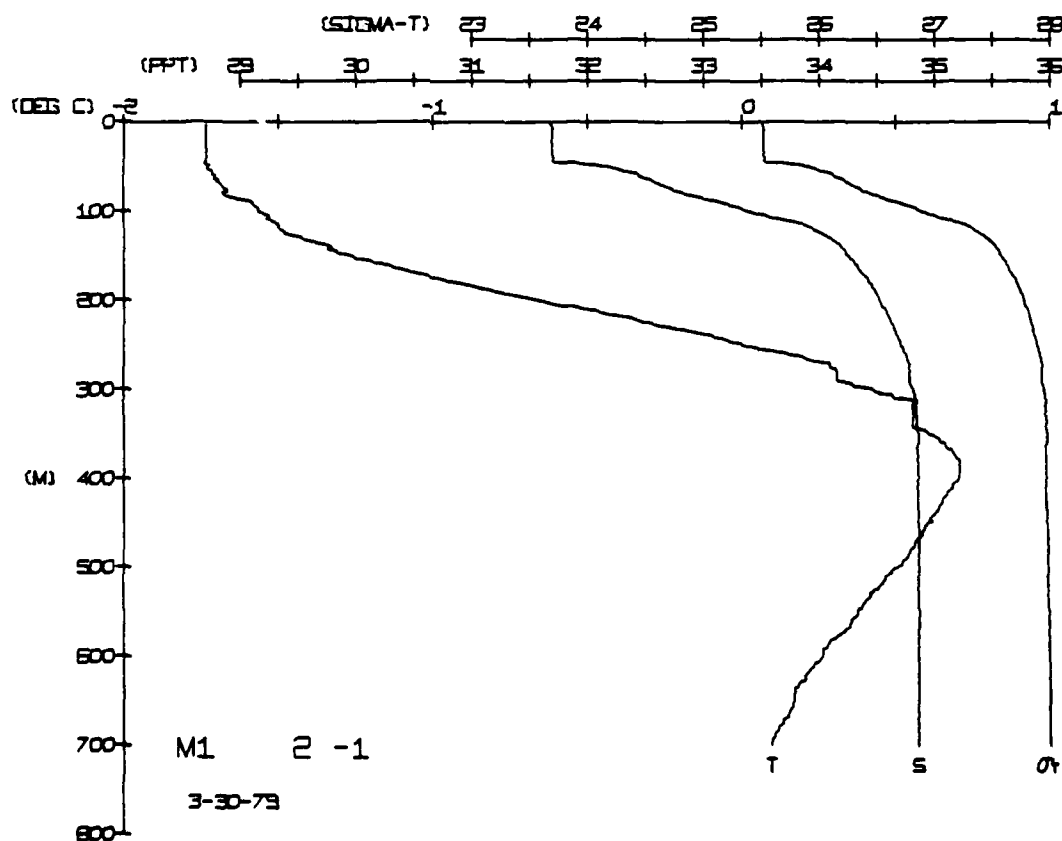
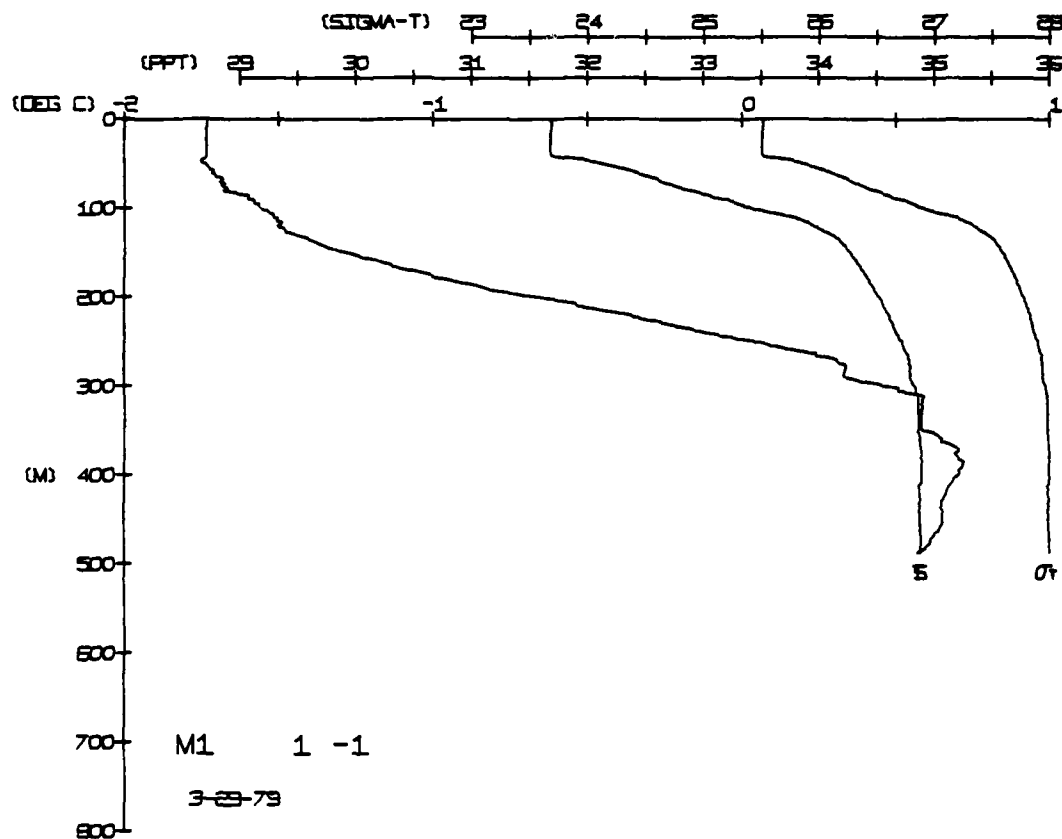
This section provides all of the STD Data taken at Fram I.
The numerical listings and corresponding plots are given.

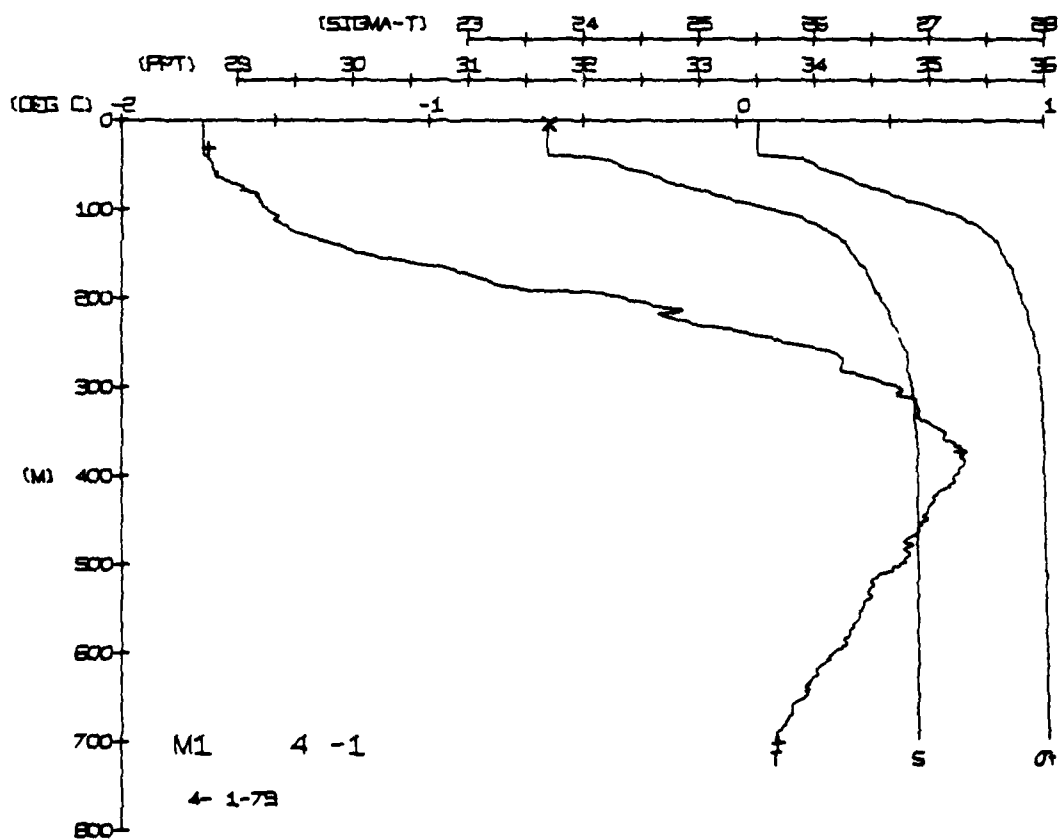
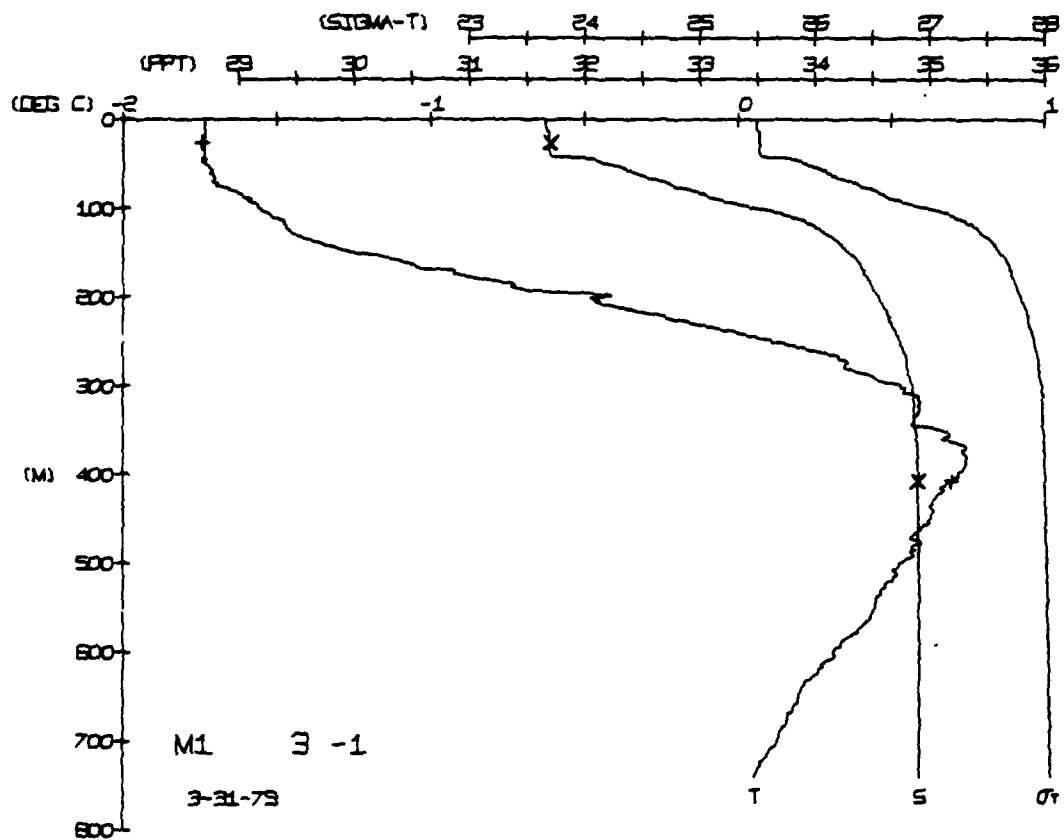
FRAM 1 STATION 1(1) CTD 29/MAR/1979 2200 GMT CODE = 1
LAT = 84.8178N LNO = 10.496N LTER = 1. LGER = 2.
AIR TEMP = 0.0 BAROM = 0.0 SPEED = 0.0

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYNHT	SOUND
0	73	73	31.69	32	7.68	000	1436.55
0	73	73	31.69	32	7.68	008	1436.66
5	73	73	31.69	32	7.68	012	1436.67
10	73	73	31.69	32	7.68	037	1436.67
15	73	73	31.69	32	7.68	050	1436.67
20	73	73	31.69	32	7.68	062	1436.67
25	73	73	31.69	32	7.68	075	1436.67
30	73	73	31.69	32	7.68	087	1436.67
35	73	73	31.69	32	7.68	100	1436.67
40	73	73	31.69	32	7.68	112	1436.67
45	73	73	31.69	32	7.68	124	1436.67
50	73	73	31.69	32	7.68	134	1436.67
55	73	73	31.69	32	7.68	144	1436.67
60	73	73	31.69	32	7.68	154	1436.67
65	73	73	31.69	32	7.68	163	1436.67
70	73	73	31.69	32	7.68	169	1436.67
75	73	73	31.69	32	7.68	184	1436.67
80	73	73	31.69	32	7.68	207	1436.67
85	73	73	31.69	32	7.68	223	1436.67
90	73	73	31.69	32	7.68	233	1436.67
95	73	73	31.69	32	7.68	249	1436.67
100	73	73	31.69	32	7.68	258	1436.67
105	73	73	31.69	32	7.68	263	1436.67
110	73	73	31.69	32	7.68	277	1436.67
115	73	73	31.69	32	7.68	282	1436.67
120	73	73	31.69	32	7.68	295	1436.67
125	73	73	31.69	32	7.68	308	1436.67
130	73	73	31.69	32	7.68	323	1436.67
135	73	73	31.69	32	7.68	334	1436.67
140	73	73	31.69	32	7.68	349	1436.67
145	73	73	31.69	32	7.68	358	1436.67
150	73	73	31.69	32	7.68	371	1436.67
155	73	73	31.69	32	7.68	381	1436.67
160	73	73	31.69	32	7.68	395	1436.67
165	73	73	31.69	32	7.68	408	1436.67
170	73	73	31.69	32	7.68	423	1436.67
175	73	73	31.69	32	7.68	434	1436.67
180	73	73	31.69	32	7.68	449	1436.67
185	73	73	31.69	32	7.68	458	1436.67
190	73	73	31.69	32	7.68	471	1436.67
195	73	73	31.69	32	7.68	481	1436.67
200	73	73	31.69	32	7.68	495	1436.67
205	73	73	31.69	32	7.68	508	1436.67
210	73	73	31.69	32	7.68	523	1436.67
215	73	73	31.69	32	7.68	534	1436.67
220	73	73	31.69	32	7.68	549	1436.67
225	73	73	31.69	32	7.68	558	1436.67
230	73	73	31.69	32	7.68	571	1436.67
235	73	73	31.69	32	7.68	581	1436.67
240	73	73	31.69	32	7.68	595	1436.67
245	73	73	31.69	32	7.68	608	1436.67
250	73	73	31.69	32	7.68	623	1436.67
255	73	73	31.69	32	7.68	634	1436.67
260	73	73	31.69	32	7.68	649	1436.67
265	73	73	31.69	32	7.68	658	1436.67
270	73	73	31.69	32	7.68	671	1436.67
275	73	73	31.69	32	7.68	681	1436.67
280	73	73	31.69	32	7.68	695	1436.67
285	73	73	31.69	32	7.68	708	1436.67
290	73	73	31.69	32	7.68	723	1436.67
295	73	73	31.69	32	7.68	734	1436.67
300	73	73	31.69	32	7.68	749	1436.67
305	73	73	31.69	32	7.68	758	1436.67
310	73	73	31.69	32	7.68	771	1436.67
315	73	73	31.69	32	7.68	781	1436.67
320	73	73	31.69	32	7.68	795	1436.67
325	73	73	31.69	32	7.68	808	1436.67
330	73	73	31.69	32	7.68	823	1436.67
335	73	73	31.69	32	7.68	834	1436.67
340	73	73	31.69	32	7.68	849	1436.67
345	73	73	31.69	32	7.68	858	1436.67
350	73	73	31.69	32	7.68	871	1436.67
355	73	73	31.69	32	7.68	881	1436.67
360	73	73	31.69	32	7.68	895	1436.67
365	73	73	31.69	32	7.68	908	1436.67
370	73	73	31.69	32	7.68	923	1436.67
375	73	73	31.69	32	7.68	934	1436.67
380	73	73	31.69	32	7.68	949	1436.67
385	73	73	31.69	32	7.68	958	1436.67
390	73	73	31.69	32	7.68	971	1436.67
395	73	73	31.69	32	7.68	981	1436.67
400	73	73	31.69	32	7.68	995	1436.67
405	73	73	31.69	32	7.68	1008	1436.67
410	73	73	31.69	32	7.68	1023	1436.67
415	73	73	31.69	32	7.68	1034	1436.67
420	73	73	31.69	32	7.68	1049	1436.67
425	73	73	31.69	32	7.68	1058	1436.67
430	73	73	31.69	32	7.68	1071	1436.67
435	73	73	31.69	32	7.68	1081	1436.67
440	73	73	31.69	32	7.68	1095	1436.67
445	73	73	31.69	32	7.68	1108	1436.67
450	73	73	31.69	32	7.68	1123	1436.67
455	73	73	31.69	32	7.68	1134	1436.67
460	73	73	31.69	32	7.68	1149	1436.67
465	73	73	31.69	32	7.68	1158	1436.67
470	73	73	31.69	32	7.68	1171	1436.67
475	73	73	31.69	32	7.68	1181	1436.67
480	73	73	31.69	32	7.68	1195	1436.67
485	73	73	31.69	32	7.68	1208	1436.67
490	73	73	31.69	32	7.68	1223	1436.67
495	73	73	31.69	32	7.68	1234	1436.67
500	73	73	31.69	32	7.68	1249	1436.67
505	73	73	31.69	32	7.68	1258	1436.67
510	73	73	31.69	32	7.68	1271	1436.67
515	73	73	31.69	32	7.68	1281	1436.67
520	73	73	31.69	32	7.68	1295	1436.67
525	73	73	31.69	32	7.68	1308	1436.67
530	73	73	31.69	32	7.68	1323	1436.67
535	73	73	31.69	32	7.68	1334	1436.67
540	73	73	31.69	32	7.68	1349	1436.67
545	73	73	31.69	32	7.68	1358	1436.67
550	73	73	31.69	32	7.68	1371	1436.67
555	73	73	31.69	32	7.68	1381	1436.67
560	73	73	31.69	32	7.68	1395	1436.67
565	73	73	31.69	32	7.68	1408	1436.67
570	73	73	31.69	32	7.68	1423	1436.67
575	73	73	31.69	32	7.68	1434	1436.67
580	73	73	31.69	32	7.68	1449	1436.67
585	73	73	31.69	32	7.68	1458	1436.67
590	73	73	31.69	32	7.68	1471	1436.67
595	73	73	31.69	32	7.68	1481	1436.67
600	73	73	31.69	32	7.68	1495	1436.67

FRAM 1 STATION 2(1) CTD 30/MAR/1979 1627 GMT CODE = 1
LAT = 84.7638N LNO = 10.3548W LTER = 2. LGER = 5.
AIR TEMP = 0.0 BAROM = 0.0 SPEED = 0.0

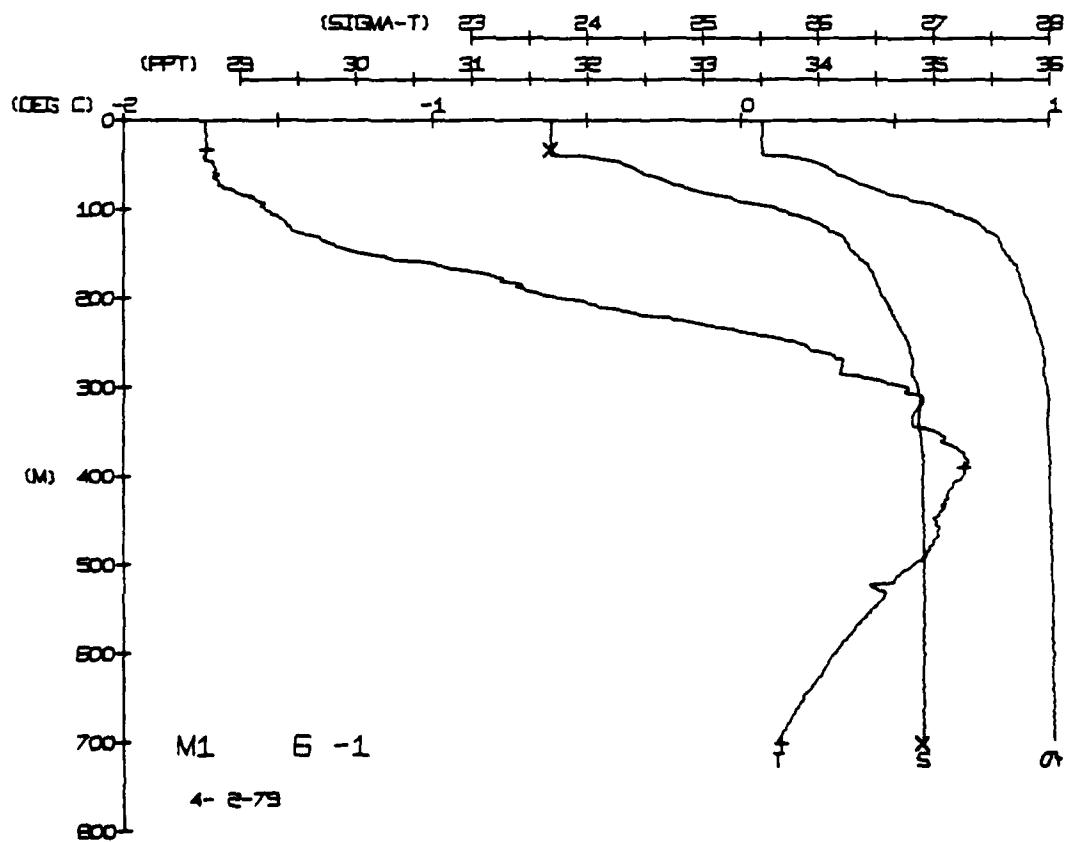
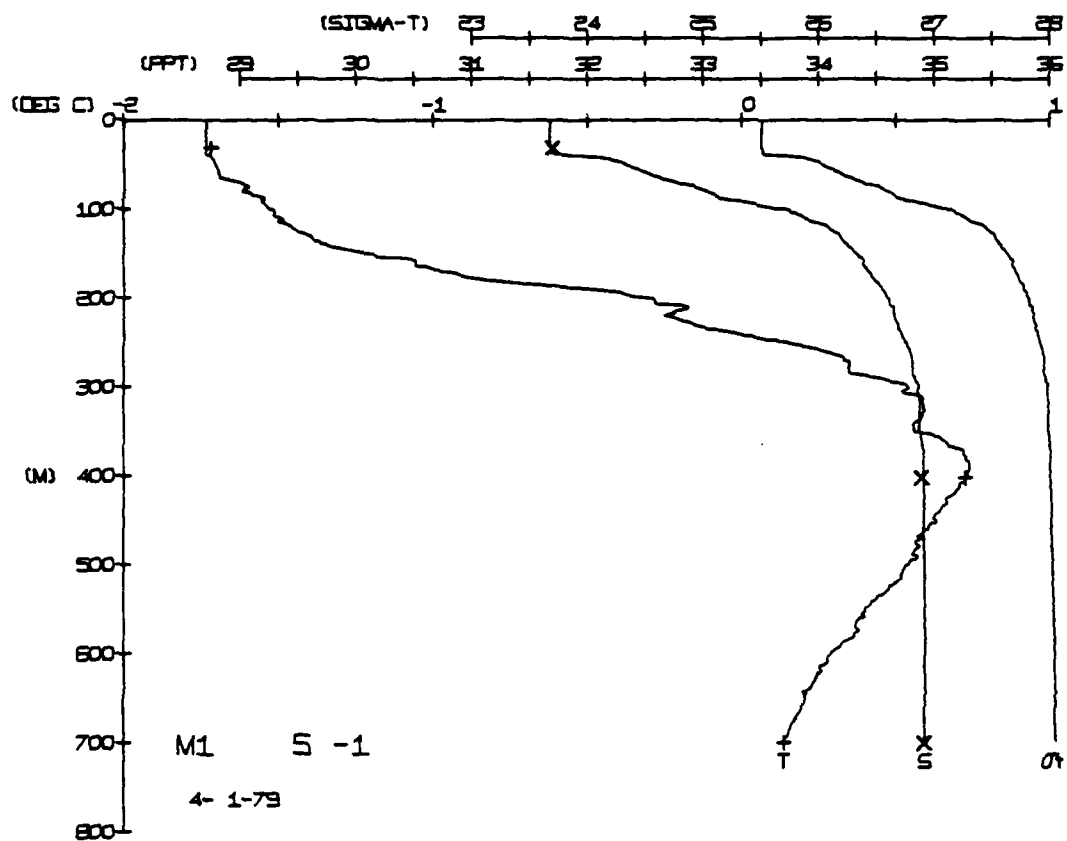
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYNHT	SOUND
0	73	73	31.69	32	7.64	000	1436.55
0	73	73	31.69	32	7.64	008	1436.66
5	73	73	31.69	32	7.64	012	1436.67
10	73	73	31.69	32	7.64	037	1436.67
15	73	73	31.69	32	7.64	050	1436.67
20	73	73	31.69	32	7.64	062	1436.67
25	73	73	31.69	32	7.64	075	1436.67
30	73	73	31.69	32	7.64	087	1436.67
35	73	73	31.69	32	7.64	100	1436.67
40	73	73	31.69	32	7.64	112	1436.67
45	73	73	31.69	32	7.64	124	1436.67
50	73	73	31.69	32	7.64	134	1436.67
55	73	73	31.69	32	7.64	144	1436.67
60	73	73	31.69	32	7.64	154	1436.67
65	73	73	31.69	32	7.64	163	1436.67
70	73	73	31.69	32	7.64	169	1436.67
75	73	73	31.69	32	7.64	184	1436.67
80	73	73	31.69	32	7.64	207	1436.67
85	73	73	31.69	32	7.64	223	1436.67
90	73	73	31.69	32	7.64	233	1436.67
95	73	73	31.69	32	7.64	249	1436.67
100	73	73	31.69	32	7.64	258	1436.67
105	73	73	31.69	32	7.64	263	1436.67
110	73	73	31.69	32	7.64	277	1436.67
115	73	73	31.69	32	7.64	282	1436.67
120	73	73	31.69	32	7.64	295	1436.67
125	73	73	31.69	32	7.64	308	1436.67
130	73	73	31.69	32	7.64	323	1436.67
135	73	73	31.69	32	7.64	334	1436.67
140	73	73	31.69	32	7.64	349	1436.67
145	73	73	31.69	32	7.64	358	1436.67
150	73	73	31.69	32	7.64	371	1436.67
155	73	73	31.69	32	7.64	381	1436.67
160	73	73	31.69	32	7.64	395	1436.67
165	73	73	31.69	32	7.64	408	1436.67
170	73	73	31.69	32	7.64	423	1436.67
175	73	73	31.69	32	7.64	434	1436.67
180	73	73	31.69	32	7.64	449	1436.67
185	73	73	31.69	32	7.64	458	1436.67
190	73	73	31.69	32	7.64	471	1436.67
195	73	73	31.69	32	7.64	481	1436.67
200	73	73	31.69	32	7.64	495	1436.67
205	73	73	31.69	32	7.64	508	1436.67
210	73	73	31.69	32	7.64	523	1436.67
21							





FRAM 1 STATION 5(1) CTD 1/APR/1979 1707 GMT CODE = 1
LAT = 84 722N LNC = 10 2233W LTER = 10 LGER = 29
AIR TEMP = -21.7 BAROM = 1019.8 WIND = 113.0 SPEED =

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYHNT	SOUND
0	73	73	31	76	25	000	1436
1	73	73	31	76	25	007	1436
2	73	73	31	76	25	012	1436
3	73	73	31	76	25	025	1436
4	73	73	31	76	25	037	1436
5	73	73	31	76	25	050	1436
6	73	73	31	76	25	062	1436
7	73	73	31	76	25	075	1436
8	73	73	31	76	25	087	1436
9	73	73	31	76	25	100	1436
10	73	73	31	76	25	111	1436
11	73	73	31	76	25	121	1436
12	73	73	31	76	25	131	1436
13	73	73	31	76	25	141	1436
14	73	73	31	76	25	150	1436
15	73	73	31	76	25	158	1436
16	73	73	31	76	25	168	1436
17	73	73	31	76	25	178	1436
18	73	73	31	76	25	188	1436
19	73	73	31	76	25	198	1436
20	73	73	31	76	25	209	1436
21	73	73	31	76	25	216	1436
22	73	73	31	76	25	228	1436
23	73	73	31	76	25	235	1436
24	73	73	31	76	25	244	1436
25	73	73	31	76	25	252	1436
26	73	73	31	76	25	260	1436
27	73	73	31	76	25	268	1436
28	73	73	31	76	25	275	1436
29	73	73	31	76	25	281	1436
30	73	73	31	76	25	287	1436
31	73	73	31	76	25	291	1436
32	73	73	31	76	25	295	1436
33	73	73	31	76	25	299	1436
34	73	73	31	76	25	301	1436
35	73	73	31	76	25	303	1436
36	73	73	31	76	25	305	1436
37	73	73	31	76	25	308	1436
38	73	73	31	76	25	311	1436
39	73	73	31	76	25	313	1436
40	73	73	31	76	25	315	1436
41	73	73	31	76	25	317	1436
42	73	73	31	76	25	319	1436
43	73	73	31	76	25	321	1436
44	73	73	31	76	25	323	1436
45	73	73	31	76	25	325	1436
46	73	73	31	76	25	327	1436
47	73	73	31	76	25	329	1436
48	73	73	31	76	25	331	1436
49	73	73	31	76	25	333	1436
50	73	73	31	76	25	335	1436
51	73	73	31	76	25	337	1436
52	73	73	31	76	25	339	1436
53	73	73	31	76	25	341	1436
54	73	73	31	76	25	343	1436
55	73	73	31	76	25	345	1436
56	73	73	31	76	25	347	1436
57	73	73	31	76	25	349	1436
58	73	73	31	76	25	351	1436
59	73	73	31	76	25	353	1436
60	73	73	31	76	25	355	1436
61	73	73	31	76	25	357	1436
62	73	73	31	76	25	359	1436
63	73	73	31	76	25	361	1436
64	73	73	31	76	25	363	1436
65	73	73	31	76	25	365	1436
66	73	73	31	76	25	367	1436
67	73	73	31	76	25	369	1436
68	73	73	31	76	25	371	1436
69	73	73	31	76	25	373	1436
70	73	73	31	76	25	375	1436
71	73	73	31	76	25	377	1436
72	73	73	31	76	25	379	1436
73	73	73	31	76	25	381	1436
74	73	73	31	76	25	383	1436
75	73	73	31	76	25	385	1436
76	73	73	31	76	25	387	1436
77	73	73	31	76	25	389	1436
78	73	73	31	76	25	391	1436
79	73	73	31	76	25	393	1436
80	73	73	31	76	25	395	1436
81	73	73	31	76	25	397	1436
82	73	73	31	76	25	399	1436
83	73	73	31	76	25	401	1436
84	73	73	31	76	25	403	1436
85	73	73	31	76	25	405	1436
86	73	73	31	76	25	407	1436
87	73	73	31	76	25	409	1436
88	73	73	31	76	25	411	1436
89	73	73	31	76	25	413	1436
90	73	73	31	76	25	415	1436
91	73	73	31	76	25	417	1436
92	73	73	31	76	25	419	1436
93	73	73	31	76	25	421	1436
94	73	73	31	76	25	423	1436
95	73	73	31	76	25	425	1436
96	73	73	31	76	25	427	1436
97	73	73	31	76	25	429	1436
98	73	73	31	76	25	431	1436
99	73	73	31	76	25	433	1436
100	73	73	31	76	25	435	1436
101	73	73	31	76	25	437	1436
102	73	73	31	76	25	439	1436
103	73	73	31	76	25	441	1436
104	73	73	31	76	25	443	1436
105	73	73	31	76	25	445	1436
106	73	73	31	76	25	447	1436
107	73	73	31	76	25	449	1436
108	73	73	31	76	25	451	1436
109	73	73	31	76	25	453	1436
110	73	73	31	76	25	455	1436
111	73	73	31	76	25	457	1436
112	73	73	31	76	25	459	1436
113	73	73	31	76	25	461	1436
114	73	73	31	76	25	463	1436
115	73	73	31	76	25	465	1436
116	73	73	31	76	25	467	1436
117	73	73	31	76	25	469	1436
118	73	73	31	76	25	471	1436
119	73	73	31	76	25	473	1436
120	73	73	31	76	25	475	1436
121	73	73	31	76	25	477	1436
122	73	73	31	76	25	479	1436
123	73	73	31	76	25	481	1436
124	73	73	31	76	25	483	1436
125	73	73	31	76	25	485	1436
126	73	73	31	76	25	487	1436
127	73	73	31	76	25	489	1436
128	73	73	31	76	25	491	1436
129	73	73	31	76	25	493	1436
130	73	73	31	76	25	495	1436
131	73	73	31	76	25	497	1436
132	73	73	31	76	25	499	1436
133	73	73	31	76	25	501	1436
134	73	73	31	76	25	503	1436
135	73	73	31	76	25	505	1436
136	73	73	31	76	25	507	1436
137	73	73	31	76	25	509	1436
138	73	73	31	76	25	511	1436
139	73	73	31	76	25	513	1436
140	73	73	31	76	25	515	1436
141	73	73	31	76	25	517	1436
142	73	73	31	76	25	519	1436
143	73	73	31	76	25	521	1436
144	73	73	31	76	25	523	1436
145	73	73	31	76	25	525	1436
146	73	73	31	76	25	527	1436
147	73	73	31	76	25	529	1436
148	73	73	31	76	25	531	1436
149	73	73	31	76	25	533	1436
150	73	73	31	76	25	535	1436
151	73	73	31	76	25	537	1436
152	73	73	31	76	25	539	1436
153	73	73	31	76	25	541	1436
154	73	73	31	76	25	543	1436
155	73	73	31	76	25	545	1436
156	73	73	31	76	25	547	1436
157	73	73	31	76	25	549	1436
158	73	73	31	76	25	551	1436
159	73	73	31	76	25	553	1436
160	73	73	31	76	25	555	1436
161	73	73	31	76	25	557	1436
162	73	73	31	76	25	559	1436
163	73	73	31	76	25	561	1436
164	73	73	31	76	25	563	1436
165	73	73	31	76	25	565	1436
166	73	73	31	76	25	567	1436
167	73	73	31	76	25	569	1436
168	73	73	31	76	25	571	1436
169	73	73	31	76	25	573	1436
170	73	73	31	76	25	575	1436
171	73	73	31	76	25	577	1436
172	73	73	31	76	25	579	1436
173	73	73	31	76	25	581	1436
174	73	73	31	76	25	583	1436
175	73	73	31	76	25	585	1436
176	73	73	31	76	25	587	1436
177	73	73	31	76	25	589	1436
178	73	73	31	76	25	591	1436
179	73	73	31	76	25	593	1436
180	73	73	31	76	25	595	1436
181	73	73	31	76	25	597	1436
182	73	73	31	76	25	599	1436
183	73	73	31	76	25	601	1436
184	73	73	31	76	25	603	1436
185	73	73	31	76	25	605	1436
186	73	73	31	76	25	607	1436
187	73	73	31	76	25	609	1436
188	73	73	31	76	25	611	1436
189	73	73	31	76	25	613	1436
190	73	73	31	76	25	615	1436
191	73	73	31	76	25	617	



FRAM 1 STATION 7(1) CTD 2/APR/1979 1807 GMT CODE = 1
 LAT = 84 723N LNG = 10 133W LTER = 1 LGER = 2.4
 AIR TEMP = -28.5 BAROM = 1021.1 WIND = 192.0 SPEED = 2.4

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYNHT	SOUND
0	74	74	31.67	25.50	0	000	1436.4
1	74	74	31.67	25.50	0	000	1436.5
2	74	74	31.66	25.49	0	013	1436.6
3	74	74	31.66	25.49	0	025	1436.7
4	74	74	31.66	25.49	0	038	1436.8
5	74	74	31.67	25.50	0	050	1436.9
6	74	74	31.66	25.49	0	063	1437.0
7	74	74	31.66	25.49	0	075	1437.1
8	74	74	31.66	25.49	0	088	1437.2
9	74	74	31.66	25.49	0	100	1437.3
10	74	74	31.66	25.49	0	113	1437.4
11	74	74	31.66	25.49	0	125	1437.5
12	74	74	31.66	25.49	0	138	1437.6
13	74	74	31.66	25.49	0	150	1437.7
14	74	74	31.66	25.49	0	163	1437.8
15	74	74	31.66	25.49	0	175	1437.9
16	74	74	31.66	25.49	0	188	1438.0
17	74	74	31.66	25.49	0	200	1438.1
18	74	74	31.66	25.49	0	213	1438.2
19	74	74	31.66	25.49	0	225	1438.3
20	74	74	31.66	25.49	0	238	1438.4
21	74	74	31.66	25.49	0	250	1438.5
22	74	74	31.66	25.49	0	263	1438.6
23	74	74	31.66	25.49	0	275	1438.7
24	74	74	31.66	25.49	0	288	1438.8
25	74	74	31.66	25.49	0	300	1438.9
26	74	74	31.66	25.49	0	313	1439.0
27	74	74	31.66	25.49	0	325	1439.1
28	74	74	31.66	25.49	0	338	1439.2
29	74	74	31.66	25.49	0	350	1439.3
30	74	74	31.66	25.49	0	363	1439.4
31	74	74	31.66	25.49	0	375	1439.5
32	74	74	31.66	25.49	0	388	1439.6
33	74	74	31.66	25.49	0	400	1439.7
34	74	74	31.66	25.49	0	413	1439.8
35	74	74	31.66	25.49	0	425	1439.9
36	74	74	31.66	25.49	0	438	1440.0
37	74	74	31.66	25.49	0	450	1440.1
38	74	74	31.66	25.49	0	463	1440.2
39	74	74	31.66	25.49	0	475	1440.3
40	74	74	31.66	25.49	0	488	1440.4
41	74	74	31.66	25.49	0	500	1440.5
42	74	74	31.66	25.49	0	513	1440.6
43	74	74	31.66	25.49	0	525	1440.7
44	74	74	31.66	25.49	0	538	1440.8
45	74	74	31.66	25.49	0	550	1440.9
46	74	74	31.66	25.49	0	563	1441.0
47	74	74	31.66	25.49	0	575	1441.1
48	74	74	31.66	25.49	0	588	1441.2
49	74	74	31.66	25.49	0	600	1441.3
50	74	74	31.66	25.49	0	613	1441.4
51	74	74	31.66	25.49	0	625	1441.5
52	74	74	31.66	25.49	0	638	1441.6
53	74	74	31.66	25.49	0	650	1441.7
54	74	74	31.66	25.49	0	663	1441.8
55	74	74	31.66	25.49	0	675	1441.9
56	74	74	31.66	25.49	0	688	1442.0
57	74	74	31.66	25.49	0	700	1442.1
58	74	74	31.66	25.49	0	713	1442.2
59	74	74	31.66	25.49	0	725	1442.3
60	74	74	31.66	25.49	0	738	1442.4
61	74	74	31.66	25.49	0	750	1442.5
62	74	74	31.66	25.49	0	763	1442.6
63	74	74	31.66	25.49	0	775	1442.7
64	74	74	31.66	25.49	0	788	1442.8
65	74	74	31.66	25.49	0	800	1442.9
66	74	74	31.66	25.49	0	813	1443.0
67	74	74	31.66	25.49	0	825	1443.1
68	74	74	31.66	25.49	0	838	1443.2
69	74	74	31.66	25.49	0	850	1443.3
70	74	74	31.66	25.49	0	863	1443.4
71	74	74	31.66	25.49	0	875	1443.5
72	74	74	31.66	25.49	0	888	1443.6
73	74	74	31.66	25.49	0	900	1443.7
74	74	74	31.66	25.49	0	913	1443.8
75	74	74	31.66	25.49	0	925	1443.9
76	74	74	31.66	25.49	0	938	1444.0
77	74	74	31.66	25.49	0	950	1444.1
78	74	74	31.66	25.49	0	963	1444.2
79	74	74	31.66	25.49	0	975	1444.3
80	74	74	31.66	25.49	0	988	1444.4
81	74	74	31.66	25.49	0	1000	1444.5
82	74	74	31.66	25.49	0	1013	1444.6
83	74	74	31.66	25.49	0	1025	1444.7
84	74	74	31.66	25.49	0	1038	1444.8
85	74	74	31.66	25.49	0	1050	1444.9
86	74	74	31.66	25.49	0	1063	1445.0
87	74	74	31.66	25.49	0	1075	1445.1
88	74	74	31.66	25.49	0	1088	1445.2
89	74	74	31.66	25.49	0	1100	1445.3
90	74	74	31.66	25.49	0	1113	1445.4
91	74	74	31.66	25.49	0	1125	1445.5
92	74	74	31.66	25.49	0	1138	1445.6
93	74	74	31.66	25.49	0	1150	1445.7
94	74	74	31.66	25.49	0	1163	1445.8
95	74	74	31.66	25.49	0	1175	1445.9
96	74	74	31.66	25.49	0	1188	1446.0
97	74	74	31.66	25.49	0	1200	1446.1
98	74	74	31.66	25.49	0	1213	1446.2
99	74	74	31.66	25.49	0	1225	1446.3
100	74	74	31.66	25.49	0	1238	1446.4

BOT NUM = 1
 BOT NUM = 3
 BOT NUM = 4

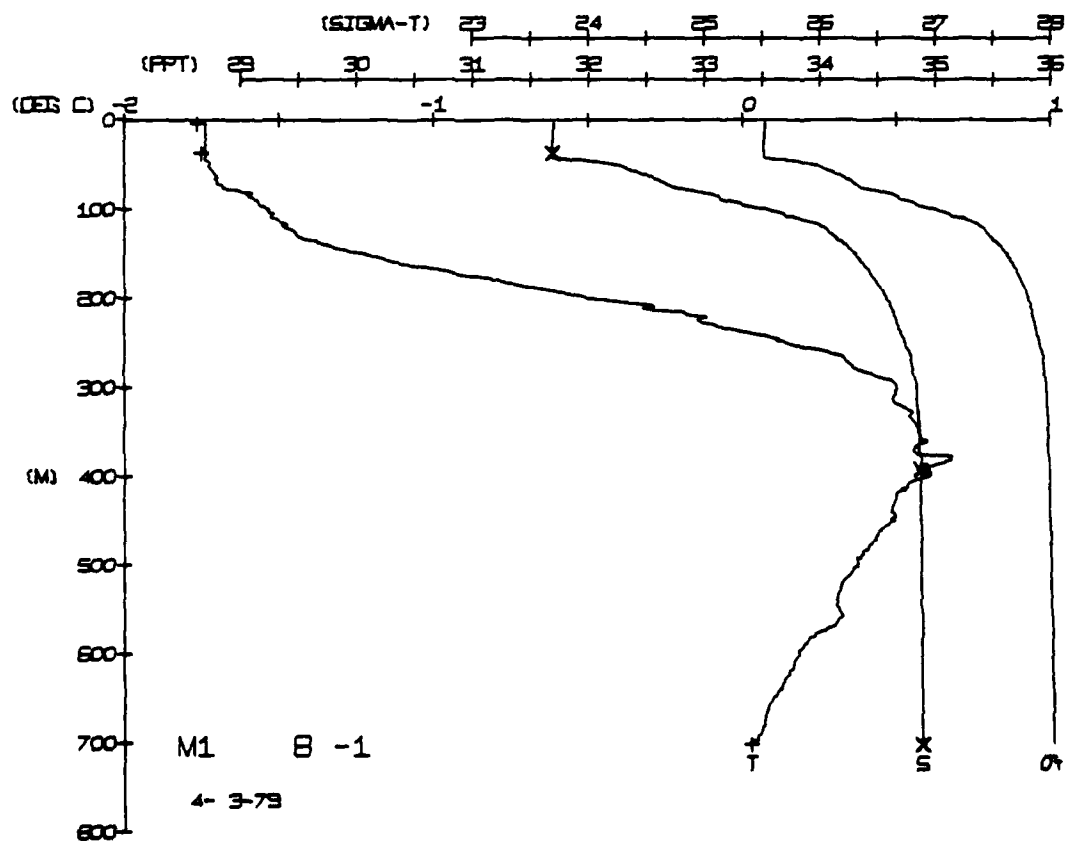
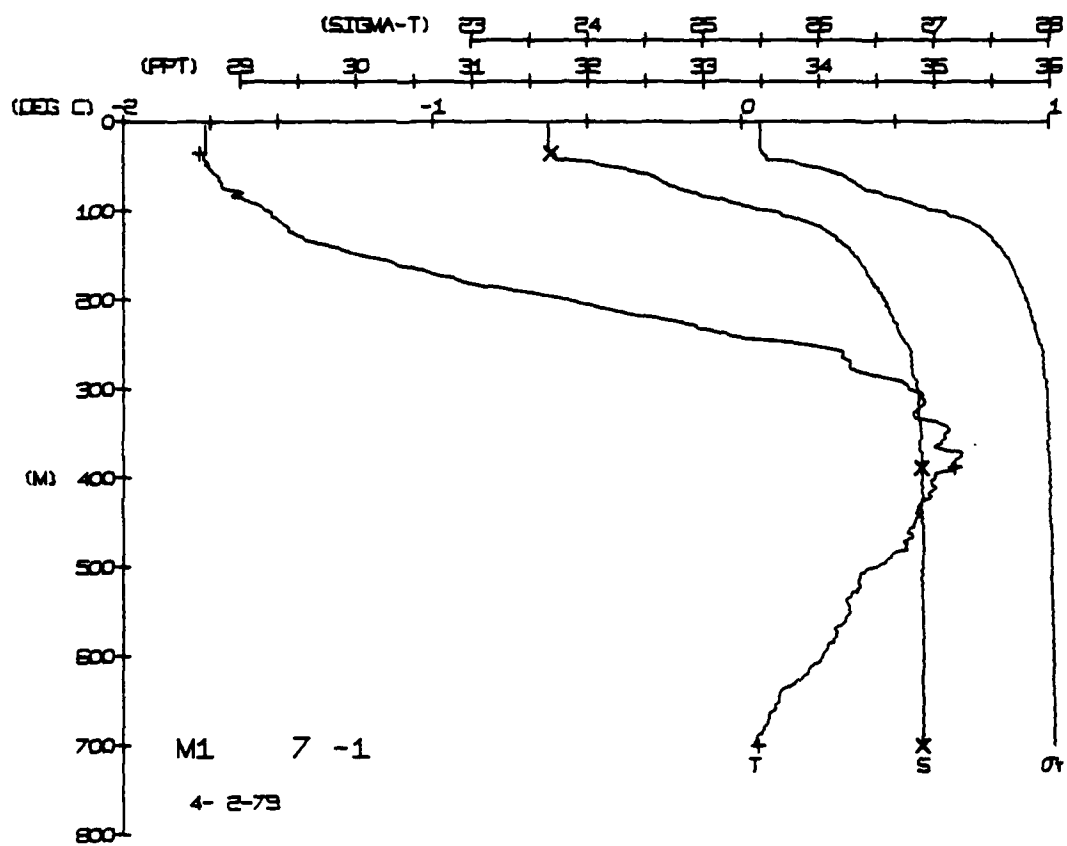
DEPTH 0 5
 38.6
 388.4
 700.4

TEMP -1.72
 -1.75
 0.05

SALIN 31.68
 34.87
 34.90

FRAM 1 STATION 8(1) CTD 3/APR/1979 1707 GMT CODE = 1
 LAT = 84 674N LNG = 9 683W LTER = 36 LGER = 63.8
 AIR TEMP = -27.0 BAROM = 1028.6 WIND = 261.0 SPEED = 5.8

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYNHT	SOUND
0	74	74	31.71	25.53	0	000	1436.5
1	74	74	31.71	25.53	0	008	1436.6
2	74	74	31.70	25.52	0	025	1436.7
3	74	74	31.70	25.52	0	037	1436.8
4	74	74	31.70	25.52	0	050	1436.9
5	74	74	31.70	25.52	0	063	1437.0
6	74	74	31.70	25.52	0	075	1437.1
7	74	74	31.70	25.52	0	088	1437.2
8	74	74	31.70	25.52	0	100	1437.3
9	74	74	31.70	25.52	0	113	1437.4
10	74	74	31.70	25.52	0	125	1437.5
11	74	74	31.70	25.52	0	138	1437.6
12	74	74	31.70	25.52	0	150	1437.7
13	74	74	31.70	25.52	0	163	1437.8
14	74	74	31.70	25.52	0	175	1437.9
15	74	74	31.70	25.52	0	188	1438.0
16	74	74	31.70	25.52	0	200	1438.1
17	74	74	31.70	25.52	0	213	1438.2
18	74	74	31.70	25.52	0	225	1438.3
19	74	74	31.70	25.52	0	238	1438.4
20	74	74	31.70	25.52	0	250	1438.5
21	74	74	31.70	25.52	0	263	1438.6
22	74	74	31.70	25.52	0	275	1438.7
23	74	74	31.70	25.52	0	288	1438.8
24	74	74	31.70	25.52	0	300	1438.9
25	74	74	31.70	25.52	0	313	1439.0
26	74	74	31.70	25.52	0	325	1439.1
27	74	74	31.70	25.52	0	338	1439.2
28	74	74	31.70	25.52	0	350	1439.3
29	74	74	31.70	25.52	0	363	1439.4
30	74	74	31.70	25.52	0	375	1439.5
31	74	74	31.70	25.52	0	388	1439.6
32	74	74	31.70	25.52	0	400	1439.7
33	74	74	31.70	25.52	0	413	1439.8
34	74	74	31.70	25.52	0	425	1439.9
35	74	74	31.70	25.52	0	438	1440.0
36	74	74	31.70	25.52	0	450	1440.1
37	74	74	31.70	25.52	0	463	1440.2
38	74	74	31.70	25.52	0	475	1440.3
39	74	74	31.70	25.52	0	488	1440.4
40	74	74	31.70	25.52	0	500	1440.5
41	74	74	31.70	25.52	0	513	1440.6
42	74	74	31.70	25.52	0	525	1440.7
43	74	74	31.70	25.52	0	538	1440.8
44	74	74	31.70	25.52	0	550	1440.9
45	74	74	31.70	25.52	0	563	1441.0
46	74	74	31.70	25.52	0	575	1441.1
47	74	74	31.70	25.52	0	588	1441.2
48	74	74	31.70	25.52	0	600	1441.3
49	74	74	31.70	25.52	0	613	1441.4
50	74	74	31.70	25.52	0	625	1441.5
51	74	74	31.70	25.52	0	638	1441.6
52	74	74	31.70	25.52	0	650	1441.7
53	74	74	31.70	25.52	0	663	1441.8
54	74	74	31.70	25.52	0	675	1441.9
55	74	74	31.70	25.52	0	688	1442.0
56	74	74	31.70	25.52	0	700	1442.1
57	74	74	31.70	25.52	0	713	1442.2
58	74	74	31.70	25.52	0	725	1442.3
59	74	74	31.70	25.52	0	738	1442.4
60	74	74	31.70	25.52	0	750	1442.5
61	74	74	31.70	25.52	0	763	1442.6
62	74	74	31.70	25.52	0	775	1442.7
63	74						



FRAM 1 STATION 9(1) CTD 3/APR/1979 1835 GMT CODE = 1
LAT = 84 6716N LNC = 9 6581W LTER = 0 LGER = 0
AIR TEMP = -27.0 BAROM = 1035.4 WIND = 261.0 SPEED = 5.8

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYHNT	SOUND
0	74	74	31.69	52	247.4	0.000	1436
1	74	74	31.69	52	247.4	0.008	1436
2	74	74	31.69	52	247.4	0.012	1436
3	74	74	31.69	52	247.4	0.025	1436
4	74	74	31.69	52	247.4	0.050	1436
5	74	74	31.69	52	247.4	0.075	1436
6	74	74	31.69	52	247.4	0.100	1436
7	74	74	31.69	52	247.4	0.125	1436
8	74	74	31.69	52	247.4	0.150	1436
9	74	74	31.69	52	247.4	0.175	1436
10	74	74	31.69	52	247.4	0.200	1436
11	74	74	31.69	52	247.4	0.225	1436
12	74	74	31.69	52	247.4	0.250	1436
13	74	74	31.69	52	247.4	0.275	1436
14	74	74	31.69	52	247.4	0.300	1436
15	74	74	31.69	52	247.4	0.325	1436
16	74	74	31.69	52	247.4	0.350	1436
17	74	74	31.69	52	247.4	0.375	1436
18	74	74	31.69	52	247.4	0.400	1436
19	74	74	31.69	52	247.4	0.425	1436
20	74	74	31.69	52	247.4	0.450	1436
21	74	74	31.69	52	247.4	0.475	1436
22	74	74	31.69	52	247.4	0.500	1436
23	74	74	31.69	52	247.4	0.525	1436
24	74	74	31.69	52	247.4	0.550	1436
25	74	74	31.69	52	247.4	0.575	1436
26	74	74	31.69	52	247.4	0.600	1436
27	74	74	31.69	52	247.4	0.625	1436
28	74	74	31.69	52	247.4	0.650	1436
29	74	74	31.69	52	247.4	0.675	1436
30	74	74	31.69	52	247.4	0.700	1436
31	74	74	31.69	52	247.4	0.725	1436
32	74	74	31.69	52	247.4	0.750	1436
33	74	74	31.69	52	247.4	0.775	1436
34	74	74	31.69	52	247.4	0.800	1436
35	74	74	31.69	52	247.4	0.825	1436
36	74	74	31.69	52	247.4	0.850	1436
37	74	74	31.69	52	247.4	0.875	1436
38	74	74	31.69	52	247.4	0.900	1436
39	74	74	31.69	52	247.4	0.925	1436
40	74	74	31.69	52	247.4	0.950	1436
41	74	74	31.69	52	247.4	0.975	1436
42	74	74	31.69	52	247.4	1.000	1436
43	74	74	31.69	52	247.4	1.025	1436
44	74	74	31.69	52	247.4	1.050	1436
45	74	74	31.69	52	247.4	1.075	1436
46	74	74	31.69	52	247.4	1.100	1436
47	74	74	31.69	52	247.4	1.125	1436
48	74	74	31.69	52	247.4	1.150	1436
49	74	74	31.69	52	247.4	1.175	1436
50	74	74	31.69	52	247.4	1.200	1436
51	74	74	31.69	52	247.4	1.225	1436
52	74	74	31.69	52	247.4	1.250	1436
53	74	74	31.69	52	247.4	1.275	1436
54	74	74	31.69	52	247.4	1.300	1436
55	74	74	31.69	52	247.4	1.325	1436
56	74	74	31.69	52	247.4	1.350	1436
57	74	74	31.69	52	247.4	1.375	1436
58	74	74	31.69	52	247.4	1.400	1436
59	74	74	31.69	52	247.4	1.425	1436
60	74	74	31.69	52	247.4	1.450	1436
61	74	74	31.69	52	247.4	1.475	1436
62	74	74	31.69	52	247.4	1.500	1436
63	74	74	31.69	52	247.4	1.525	1436
64	74	74	31.69	52	247.4	1.550	1436
65	74	74	31.69	52	247.4	1.575	1436
66	74	74	31.69	52	247.4	1.600	1436
67	74	74	31.69	52	247.4	1.625	1436
68	74	74	31.69	52	247.4	1.650	1436
69	74	74	31.69	52	247.4	1.675	1436
70	74	74	31.69	52	247.4	1.700	1436
71	74	74	31.69	52	247.4	1.725	1436
72	74	74	31.69	52	247.4	1.750	1436
73	74	74	31.69	52	247.4	1.775	1436
74	74	74	31.69	52	247.4	1.800	1436
75	74	74	31.69	52	247.4	1.825	1436
76	74	74	31.69	52	247.4	1.850	1436
77	74	74	31.69	52	247.4	1.875	1436
78	74	74	31.69	52	247.4	1.900	1436
79	74	74	31.69	52	247.4	1.925	1436
80	74	74	31.69	52	247.4	1.950	1436
81	74	74	31.69	52	247.4	1.975	1436
82	74	74	31.69	52	247.4	2.000	1436
83	74	74	31.69	52	247.4	2.025	1436
84	74	74	31.69	52	247.4	2.050	1436
85	74	74	31.69	52	247.4	2.075	1436
86	74	74	31.69	52	247.4	2.100	1436
87	74	74	31.69	52	247.4	2.125	1436
88	74	74	31.69	52	247.4	2.150	1436
89	74	74	31.69	52	247.4	2.175	1436
90	74	74	31.69	52	247.4	2.200	1436
91	74	74	31.69	52	247.4	2.225	1436
92	74	74	31.69	52	247.4	2.250	1436
93	74	74	31.69	52	247.4	2.275	1436
94	74	74	31.69	52	247.4	2.300	1436
95	74	74	31.69	52	247.4	2.325	1436
96	74	74	31.69	52	247.4	2.350	1436
97	74	74	31.69	52	247.4	2.375	1436
98	74	74	31.69	52	247.4	2.400	1436
99	74	74	31.69	52	247.4	2.425	1436
100	74	74	31.69	52	247.4	2.450	1436

BOT NUM = 1
BOT NUM = 2

DEPTH 3.7

TEMP -1.74

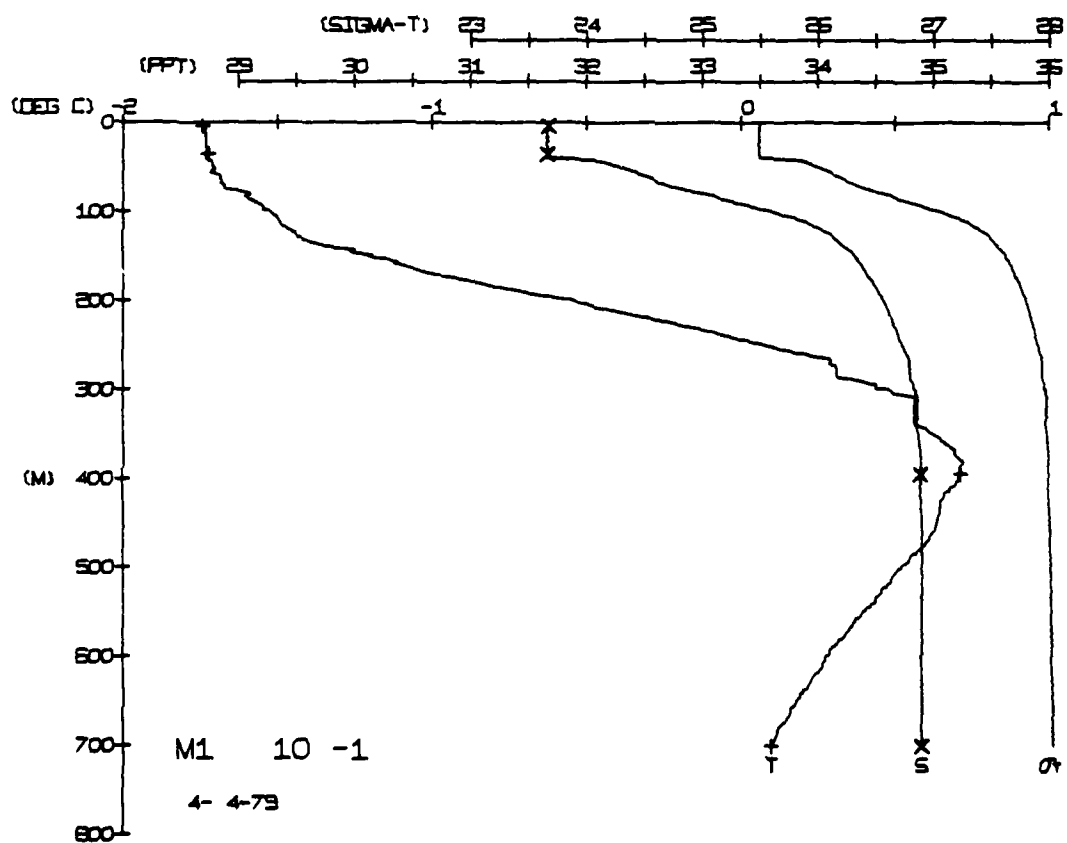
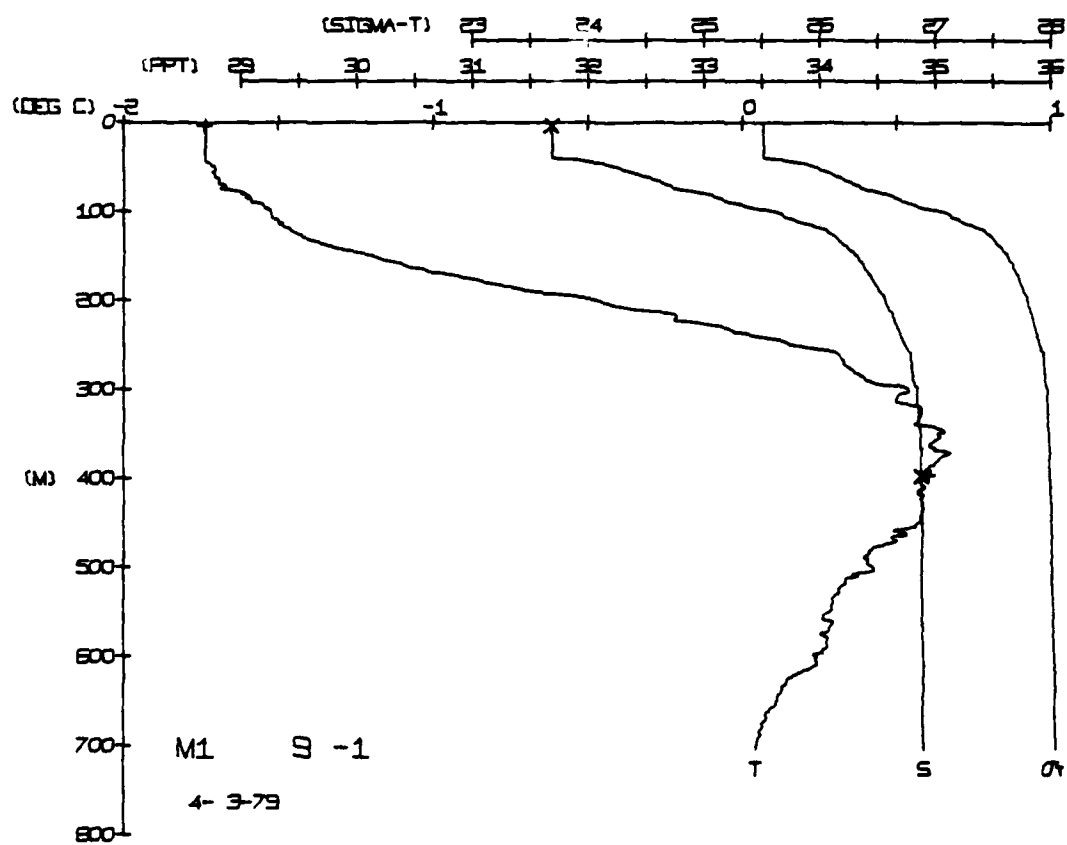
SALIN 31.68

397.1

0.61

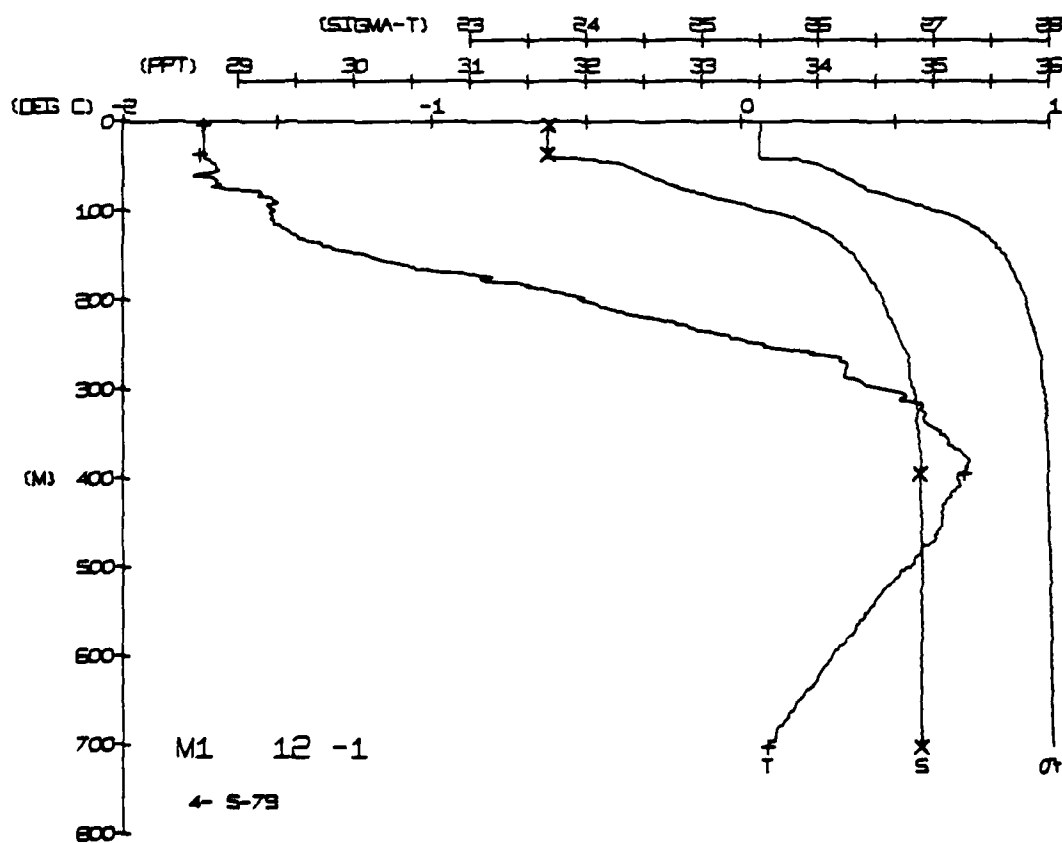
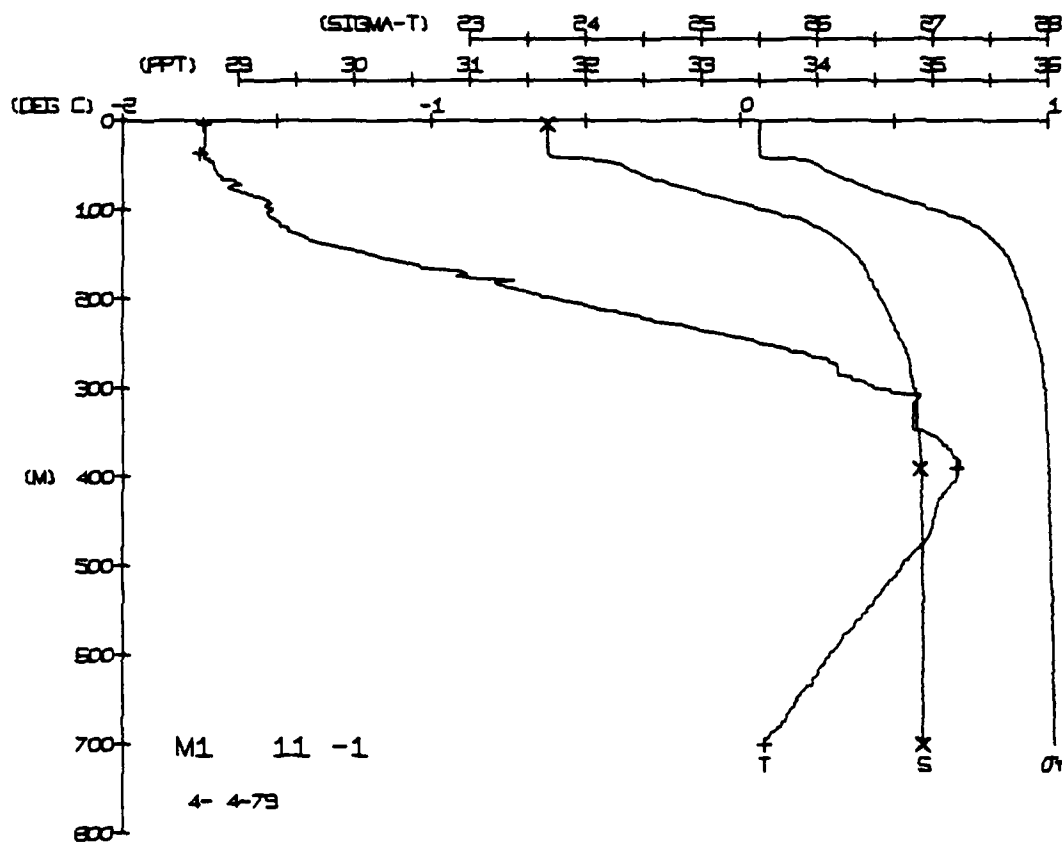
FRAM 1 STATION 10(1) CTD 4/APR/1979 700 GMT CODE = 1
LAT = 84 6601N LNC = 9 5517W LTER = 15 LGER = 27
AIR TEMP = -28.3 BAROM = 1038.5 WIND = 218.0 SPEED = 4.2

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYHNT	SOUND
0	73	73	31.65	50	217.6	0.000	1436
1	73	73	31.65	50	217.6	0.008	1436
2	73	73	31.65	50	217.6	0.012	1436
3	73	73	31.65	50	217.6	0.025	1436
4	73	73	31.65	50	217.6	0.050	1436
5	73	73	31.65	50	217.6	0.075	1436
6	73	73	31.65	50	217.6	0.100	1436
7	73	73	31.65	50	217.6	0.125	1436
8	73	73	31.65	50	217.6	0.150	1436
9	73	73	31.65	50	217.6	0.175	1436
10	73	73	31.65	50	217.6	0.200	1436
11	73	73	31.65	50	217.6	0.225	1436
12	73	73	31.65	50	217.6	0.250	1436
13	73	73	31.65	50	217.6	0.275	1436
14	73	73	31.65	50	217.6	0.300	1436
15	73	73	31.65	50	217.6	0.325	1436
16	73	73	31.65	50	217.6	0.350	1436
17	73	73	31.65	50	217.6	0.375	1436
18	73	73	31.65	50	217.6	0.400	1436
19	73	73	31.65	50	217.6	0.425	1436
20	73	73	31.65	50	217.6	0.450	1436
21	73	73	31.65	50	217.6	0.475	1436
22	73	73	31.65	50	217.6	0.500	1436
23	73	73	31.65	50	217.6	0.525	1436
24	73	73	31.65	50	217.6	0.550	1436
25	73	73	31.65	50	217.6	0.575	1436
26	73	73	31.65	50	217.6	0.600	1436
27	73	73	31.65	50	217.6	0.625	1436
28	73	73	31.65	50	217.6	0.650	1436
29	73	73	31.65	50	217.6	0.675	1436
30	73	73	31.65	50	217.6	0.700	1436
31	73	73	31.65	50	217.6	0.725	1436
32	73	73	31.65	50	217.6	0.750	1436
33	73	73	31.65	50	217.6	0.775	1436
34	73	73	31.65	50	217.6	0.800	1436
35	73	73	31.65	50	217.6	0.825	1436
36	73	73	31.65	50	217.6	0.850	1436
37	73	73	31.65	50	217.6	0.875	1436
38	73	73	31.65	50	217.6	0.900	1436
39	73	73	31.65	50	217.6	0.925	1436
40	73	73	31.65	50	217.6	0.950	1436
41	73	73	31.65	50	217.6	0.975	1436
42	73	73	31.65	50	217.6	1.000	1436
43	73	73	31.65	50	217.6	1.025	1436
44	73	73	31.65	50	217.6	1.050	1436
45	73	73	31.65	50	217.6	1.075	1436
46	73	73	31.65	50	217.6	1.100	1436
47	73	73	31.65	50	217.6	1.125	1436
48	73	73	31.65	50	217.6	1.150	1436
49	73	73	31.65	50	217.6	1.175	1436
50	73	73	31.65	50	217.6	1.200	1436
51	73	73	31.65	50	217.6	1.225	1436
52	73	73	31.65	50	217.6	1.250	1436
53	73	73	31.65	50	217.6	1.275	1436
54	73	73	31.65	50	217.6	1.300	1436
55	73	73	31.65	50	217.6	1.325	1436
56	73	73	31.65	50	217.6	1.350	1436
57	73	73	31.65	50	217.6	1.375	1436
58	73	73	31.65	50	217.6	1.400	1436
59	73	73	31.65	50	217.6	1.425	1436
60	73	73	31.65	50	217.6	1.450	1436
61	73	73	31.65	50	217.6	1.475	1436
62	73	73	31.65	50	217.6	1.500	1436
63	73	73	31.65	50	217.6	1.525	1436
64							



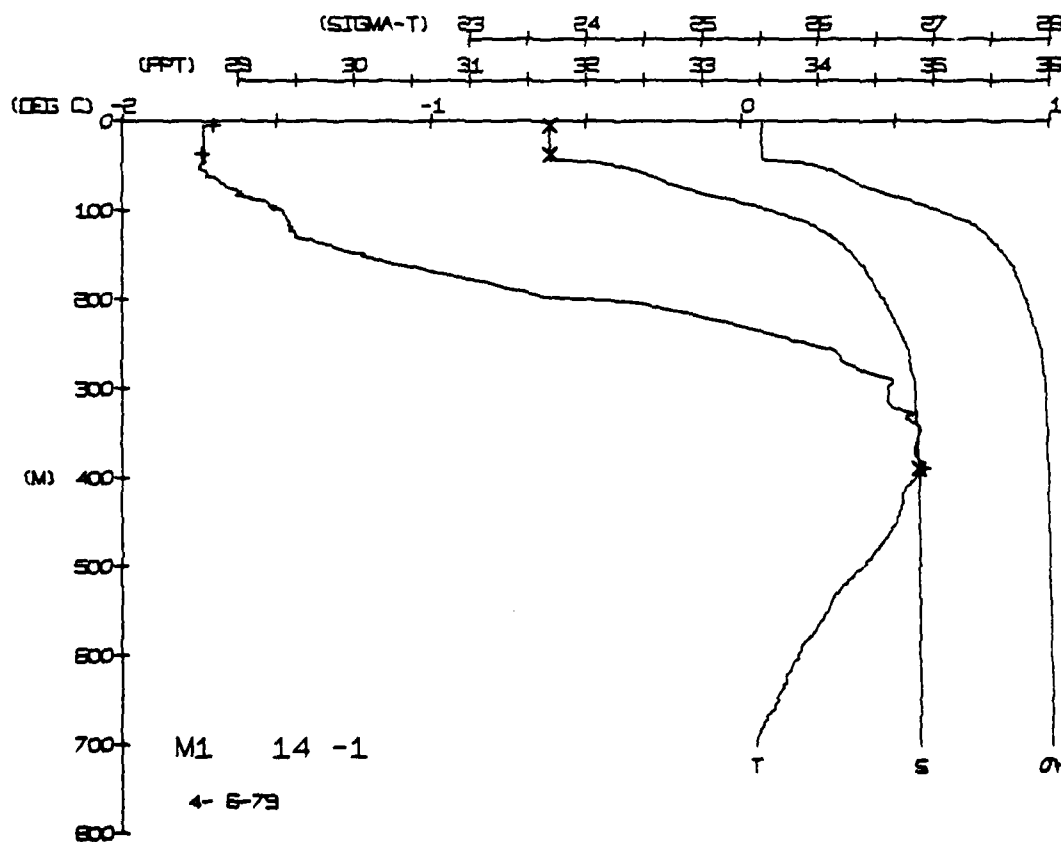
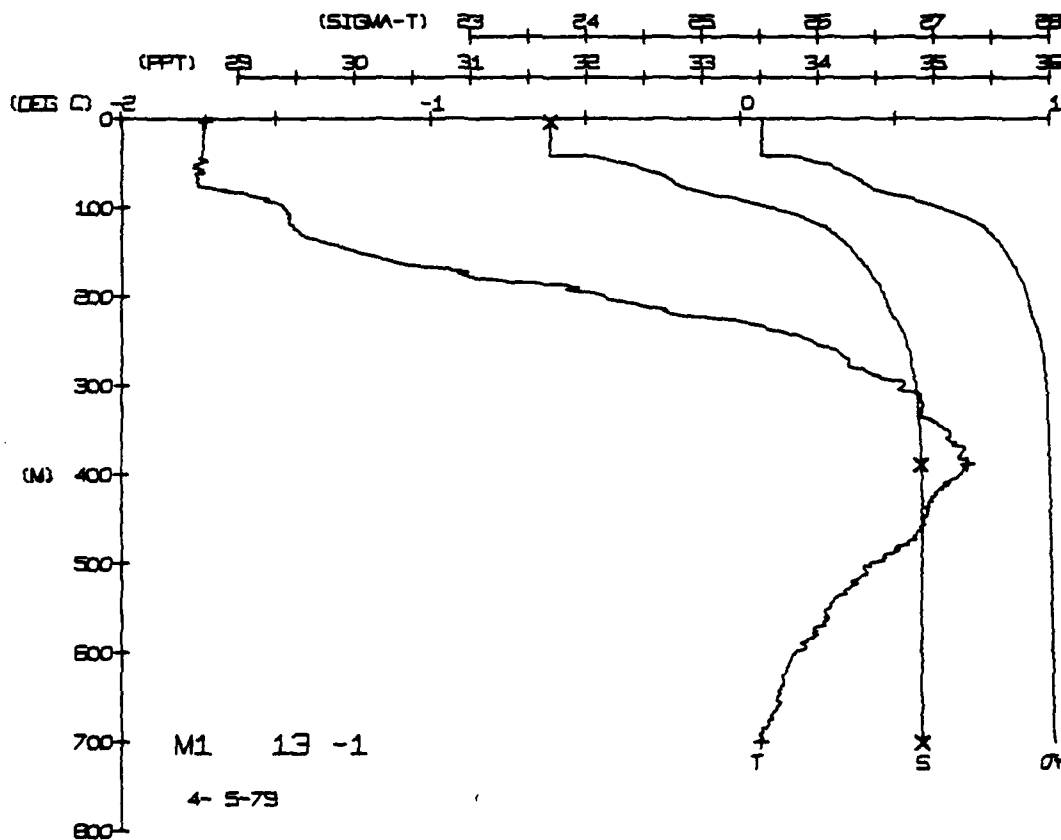
FRAM 1 STATION 11(1) CTD 4/APR/1979 1837 GMT CODE = 1
 LAT = 84 6472N LONG = 9 4235W LTER = 0 LGER = 0
 AIR TEMP = -28.3 BAROM = 1038.7 WIND = 218.0 SPEED = 4.2

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYHNT	SOUND
0	74	74	31.68	25.50	248.7	0.008	1436.4
1	74	74	31.68	25.50	248.7	0.008	1436.5
2	74	74	31.67	25.50	248.7	0.013	1436.6
3	74	74	31.67	25.50	248.7	0.025	1436.7
4	74	74	31.67	25.50	248.7	0.038	1436.8
5	74	74	31.67	25.50	248.7	0.050	1436.9
6	74	74	31.67	25.50	248.7	0.063	1437.0
7	74	74	31.67	25.50	248.7	0.075	1437.1
8	74	74	31.67	25.50	248.7	0.088	1437.2
9	74	74	31.67	25.50	248.7	0.100	1437.3
10	74	74	31.67	25.50	248.7	0.112	1437.4
11	74	74	31.67	25.50	248.7	0.125	1437.5
12	74	74	31.67	25.50	248.7	0.137	1437.6
13	74	74	31.67	25.50	248.7	0.150	1437.7
14	74	74	31.67	25.50	248.7	0.162	1437.8
15	74	74	31.67	25.50	248.7	0.175	1437.9
16	74	74	31.67	25.50	248.7	0.187	1438.0
17	74	74	31.67	25.50	248.7	0.200	1438.1
18	74	74	31.67	25.50	248.7	0.212	1438.2
19	74	74	31.67	25.50	248.7	0.225	1438.3
20	74	74	31.67	25.50	248.7	0.237	1438.4
21	74	74	31.67	25.50	248.7	0.250	1438.5
22	74	74	31.67	25.50	248.7	0.262	1438.6
23	74	74	31.67	25.50	248.7	0.275	1438.7
24	74	74	31.67	25.50	248.7	0.287	1438.8
25	74	74	31.67	25.50	248.7	0.300	1438.9
26	74	74	31.67	25.50	248.7	0.312	1439.0
27	74	74	31.67	25.50	248.7	0.325	1439.1
28	74	74	31.67	25.50	248.7	0.337	1439.2
29	74	74	31.67	25.50	248.7	0.350	1439.3
30	74	74	31.67	25.50	248.7	0.362	1439.4
31	74	74	31.67	25.50	248.7	0.375	1439.5
32	74	74	31.67	25.50	248.7	0.387	1439.6
33	74	74	31.67	25.50	248.7	0.400	1439.7
34	74	74	31.67	25.50	248.7	0.412	1439.8
35	74	74	31.67	25.50	248.7	0.425	1439.9
36	74	74	31.67	25.50	248.7	0.437	1440.0
37	74	74	31.67	25.50	248.7	0.450	1440.1
38	74	74	31.67	25.50	248.7	0.462	1440.2
39	74	74	31.67	25.50	248.7	0.475	1440.3
40	74	74	31.67	25.50	248.7	0.487	1440.4
41	74	74	31.67	25.50	248.7	0.500	1440.5
42	74	74	31.67	25.50	248.7	0.512	1440.6
43	74	74	31.67	25.50	248.7	0.525	1440.7
44	74	74	31.67	25.50	248.7	0.537	1440.8
45	74	74	31.67	25.50	248.7	0.550	1440.9
46	74	74	31.67	25.50	248.7	0.562	1441.0
47	74	74	31.67	25.50	248.7	0.575	1441.1
48	74	74	31.67	25.50	248.7	0.587	1441.2
49	74	74	31.67	25.50	248.7	0.600	1441.3
50	74	74	31.67	25.50	248.7	0.612	1441.4
51	74	74	31.67	25.50	248.7	0.625	1441.5
52	74	74	31.67	25.50	248.7	0.637	1441.6
53	74	74	31.67	25.50	248.7	0.650	1441.7
54	74	74	31.67	25.50	248.7	0.662	1441.8
55	74	74	31.67	25.50	248.7	0.675	1441.9
56	74	74	31.67	25.50	248.7	0.687	1442.0
57	74	74	31.67	25.50	248.7	0.700	1442.1
58	74	74	31.67	25.50	248.7	0.712	1442.2
59	74	74	31.67	25.50	248.7	0.725	1442.3
60	74	74	31.67	25.50	248.7	0.737	1442.4
61	74	74	31.67	25.50	248.7	0.750	1442.5
62	74	74	31.67	25.50	248.7	0.762	1442.6
63	74	74	31.67	25.50	248.7	0.775	1442.7
64	74	74	31.67	25.50	248.7	0.787	1442.8
65	74	74	31.67	25.50	248.7	0.800	1442.9
66	74	74	31.67	25.50	248.7	0.812	1443.0
67	74	74	31.67	25.50	248.7	0.825	1443.1
68	74	74	31.67	25.50	248.7	0.837	1443.2
69	74	74	31.67	25.50	248.7	0.850	1443.3
70	74	74	31.67	25.50	248.7	0.862	1443.4
71	74	74	31.67	25.50	248.7	0.875	1443.5
72	74	74	31.67	25.50	248.7	0.887	1443.6
73	74	74	31.67	25.50	248.7	0.900	1443.7
74	74	74	31.67	25.50	248.7	0.912	1443.8
75	74	74	31.67	25.50	248.7	0.925	1443.9
76	74	74	31.67	25.50	248.7	0.937	1444.0
77	74	74	31.67	25.50	248.7	0.950	1444.1
78	74	74	31.67	25.50	248.7	0.962	1444.2
79	74	74	31.67	25.50	248.7	0.975	1444.3
80	74	74	31.67	25.50	248.7	0.987	1444.4
81	74	74	31.67	25.50	248.7	1.000	1444.5
82	74	74	31.67	25.50	248.7	1.012	1444.6
83	74	74	31.67	25.50	248.7	1.025	1444.7
84	74	74	31.67	25.50	248.7	1.037	1444.8
85	74	74	31.67	25.50	248.7	1.050	1444.9
86	74	74	31.67	25.50	248.7	1.062	1445.0
87	74	74	31.67	25.50	248.7	1.075	1445.1
88	74	74	31.67	25.50	248.7	1.087	1445.2
89	74	74	31.67	25.50	248.7	1.100	1445.3
90	74	74	31.67	25.50	248.7	1.112	1445.4
91	74	74	31.67	25.50	248.7	1.125	1445.5
92	74	74	31.67	25.50	248.7	1.137	1445.6
93	74	74	31.67	25.50	248.7	1.150	1445.7
94	74	74	31.67	25.50	248.7	1.162	1445.8
95	74	74	31.67	25.50	248.7	1.175	1445.9
96	74	74	31.67	25.50	248.7	1.187	1446.0
97	74	74	31.67	25.50	248.7	1.200	1446.1
98	74	74	31.67	25.50	248.7	1.212	1446.2
99	74	74	31.67	25.50	248.7	1.225	1446.3
100	74	74	31.67	25.50	248.7	1.237	1446.4
101	74	74	31.67	25.50	248.7	1.250	1446.5
102	74	74	31.67	25.50	248.7	1.262	1446.6
103	74	74	31.67	25.50	248.7	1.275	1446.7
104	74	74	31.67	25.50	248.7	1.287	1446.8
105	74	74	31.67	25.50	248.7	1.300	1446.9
106	74	74	31.67	25.50	248.7	1.312	1447.0
107	74	74	31.67	25.50	248.7	1.325	1447.1
108	74	74	31.67	25.50	248.7	1.337	1447.2
109	74	74	31.67	25.50	248.7	1.350	1447.3
110	74	74	31.67	25.50	248.7	1.362	1447.4
111	74	74	31.67	25.50	248.7	1.375	1447.5
112	74	74	31.67	25.50	248.7	1.387	1447.6
113	74	74	31.67	25.50	248.7	1.400	1447.7
114	74	74	31.67	25.50	248.7	1.412	1447.8
115	74	74	31.67	25.50	248.7	1.425	1447.9
116	74	74	31.67	25.50	248.7	1.437	1448.0
117	74	74	31.67	25.50	248.7	1.450	1448.1
118	74	74	31.67	25.50	248.7	1.462	1448.2
119	74	74	31.67	25.50	248.7	1.475	1448.3
120	74	74	31.67	25.50	248.7	1.487	1448.4
121	74	74	31.67	25.50	248.7	1.500	1448.5
122	74	74	31.67	25.50	248.7	1.512	1448.6
123	74	74	31.67	25.50	248.7	1.525	1448.7
124	74	74	31.67	25.50	248.7	1.537	1448.8
125	74	74	31.67	25.50	248.7	1.550	1448.9
126	74	74	31.67	25.50	248.7	1.562	1449.0
127	74	74	31.67	25.50	248.7	1.575	1449.1
128	74	74	31.67	25.50	248.7	1.587	1449.2
129	74	74	31.67	25.50	248.7	1.600	1449.3
130	74	74	31.67	25.50	248.7	1.612	1449.4
131	74	74	31.67	25.50	248.7	1.625	1449.5
132	74	74	31.67	25.50	248.7	1.637	1449.6
133	74	74	31.67	25.50	248.7	1.650	1449.7
134	74	74	31.67	25.50	248.7	1.662	1449.8
135	74	74	31.67	25.50	248.7	1.675	1449.9
136	74	74	31.67	25.50	248.7	1.687	1450.0
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138	74	74	31.67	25.50	248.7	1.712	1450.2
139	74	74	31.67	25.50	248.7	1.725	1450.3
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141	74	74	31.67	25.50	248.7	1.750	1450.5
142	74	74	31.67	25.50	248.7	1.762	1450.6
143	74	74	31.67	25.50	248.7	1.775	1450.7
144	74	74	31.67	25.50	248.7	1.787	1450.8
145	74	74	31.67	25.50	248.7	1.800	1450.9
146	74	74	31.67	25.50	248.7	1.812	1451.0
147	74	74	31.67	25.50	248.7	1.825	1451.1
148	74	74	31.67	25.50	248.7	1.837	1451.2
149	74	74	31.67	25.50	248.7	1.850	1451.3
150	74	74	31.67	25.50	248.7	1.862	1451.4
151	74	74	31.67	25.50	248.7	1.875	1451.5
152	74	74	31.67	25.50	248.7	1.887	1451.6
153	74	74	31.67	25.50	248.7	1.900	1451.7
154	74	74	31.67	25.50	248.7	1.912	1451.8
155	74	74	31.67	25.50	248.7	1.925	1451.9
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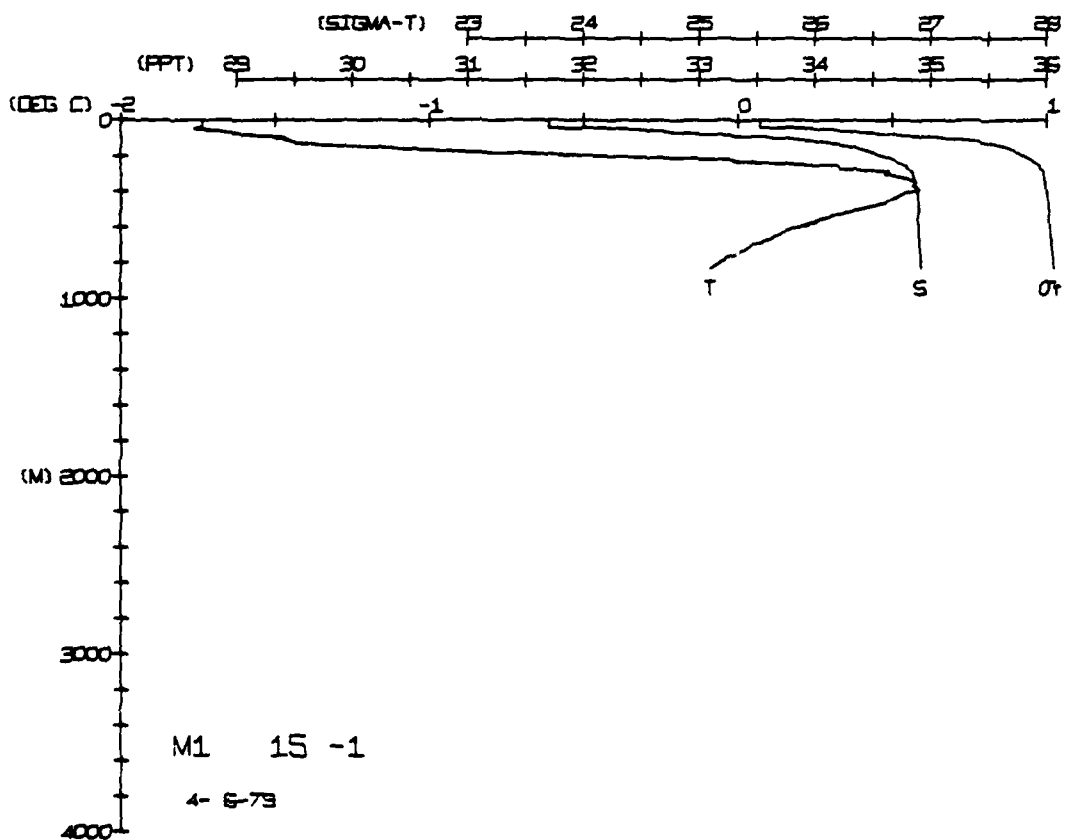
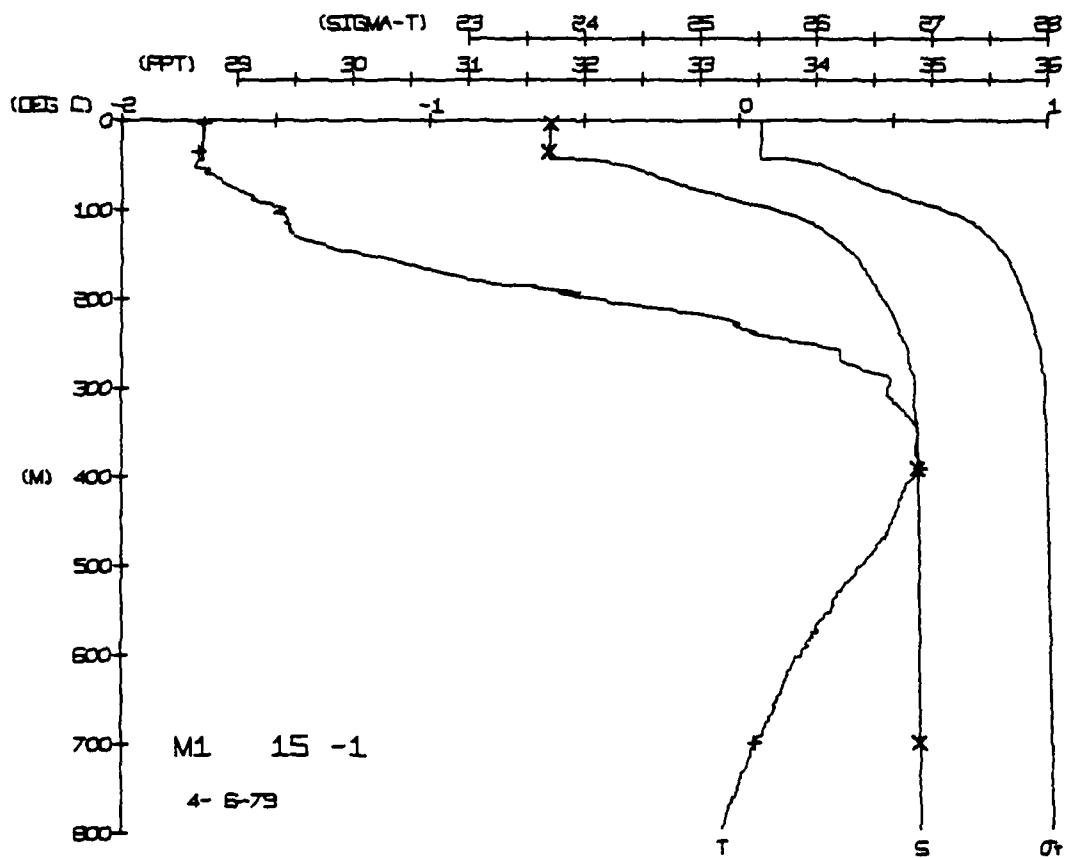
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2	30.00	11.74	33.11	25.53	24.47	00.07	14.35
3	30.00	11.74	33.11	25.53	24.47	00.07	14.35
4	30.00	11.74	33.11	25.53	24.47	00.07	14.35
5	30.00	11.74	33.11	25.53	24.47	00.07	14.35
6	30.00	11.74	33.11	25.53	24.47	00.07	14.35
7	30.00	11.74	33.11	25.53	24.47	00.07	14.35
8	30.00	11.74	33.11	25.53	24.47	00.07	14.35
9	30.00	11.74	33.11	25.53	24.47	00.07	14.35
10	30.00	11.74	33.11	25.53	24.47	00.07	14.35
11	30.00	11.74	33.11	25.53	24.47	00.07	14.35
12	30.00	11.74	33.11	25.53	24.47	00.07	14.35
13	30.00	11.74	33.11	25.53	24.47	00.07	14.35
14	30.00	11.74	33.11	25.53	24.47	00.07	14.35
15	30.00	11.74	33.11	25.53	24.47	00.07	14.35
16	30.00	11.74	33.11	25.53	24.47	00.07	14.35
17	30.00	11.74	33.11	25.53	24.47	00.07	14.35
18	30.00	11.74	33.11	25.53	24.47	00.07	14.35
19	30.00	11.74	33.11	25.53	24.47	00.07	14.35
20	30.00	11.74	33.11	25.53	24.47	00.07	14.35
21	30.00	11.74	33.11	25.53	24.47	00.07	14.35
22	30.00	11.74	33.11	25.53	24.47	00.07	14.35
23	30.00	11.74	33.11	25.53	24.47	00.07	14.35
24	30.00	11.74	33.11	25.53	24.47	00.07	14.35
25	30.00	11.74	33.11	25.53	24.47	00.07	14.35
26	30.00	11.74	33.11	25.53	24.47	00.07	14.35
27	30.00	11.74	33.11	25.53	24.47	00.07	14.35
28	30.00	11.74	33.11	25.53	24.47	00.07	14.35
29	30.00	11.74	33.11	25.53	24.47	00.07	14.35
30	30.00	11.74	33.11	25.53	24.47	00.07	14.35
31	30.00	11.74	33.11	25.53	24.47	00.07	14.35
32	30.00	11.74	33.11	25.53	24.47	00.07	14.35
33	30.00	11.74	33.11	25.53	24.47	00.07	14.35
34	30.00	11.74	33.11	25.53	24.47	00.07	14.35
35	30.00	11.74	33.11	25.53	24.47	00.07	14.35
36	30.00	11.74	33.11	25.53	24.47	00.07	14.35
37	30.00	11.74	33.11	25.53	24.47	00.07	14.35
38	30.00	11.74	33.11	25.53	24.47	00.07	14.35
39	30.00	11.74	33.11	25.53	24.47	00.07	14.35
40	30.00	11.74	33.11	25.53	24.47	00.07	14.35
41	30.00	11.74	33.11	25.53	24.47	00.07	14.35
42	30.00	11.74	33.11	25.53	24.47	00.07	14.35
43	30.00	11.74	33.11	25.53	24.47	00.07	14.35
44	30.00	11.74	33.11	25.53	24.47	00.07	14.35
45	30.00	11.74	33.11	25.53	24.47	00.07	14.35
46	30.00	11.74	33.11	25.53	24.47	00.07	14.35
47	30.00	11.74	33.11	25.53	24.47	00.07	14.35
48	30.00	11.74	33.11	25.53	24.47	00.07	14.35
49	30						



FRAM 1 STATION 15(1) CTD 6/APR/1979 1833 GMT CODE = 1
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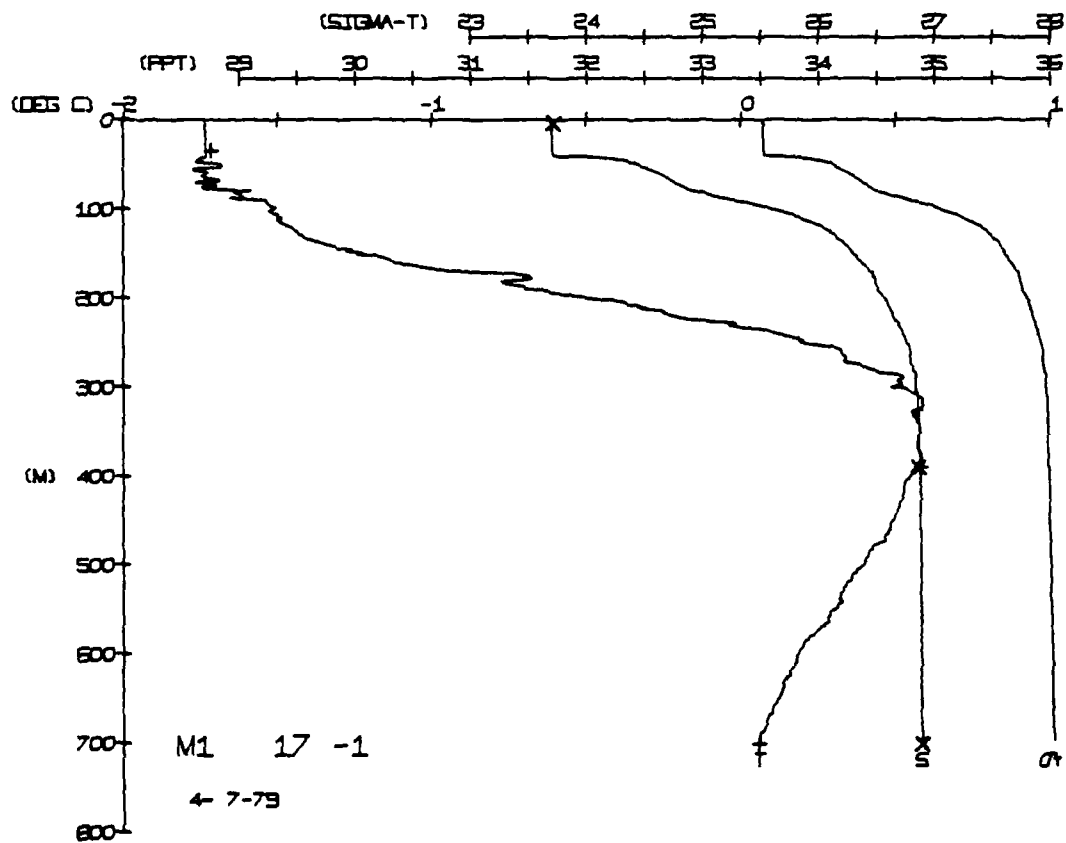
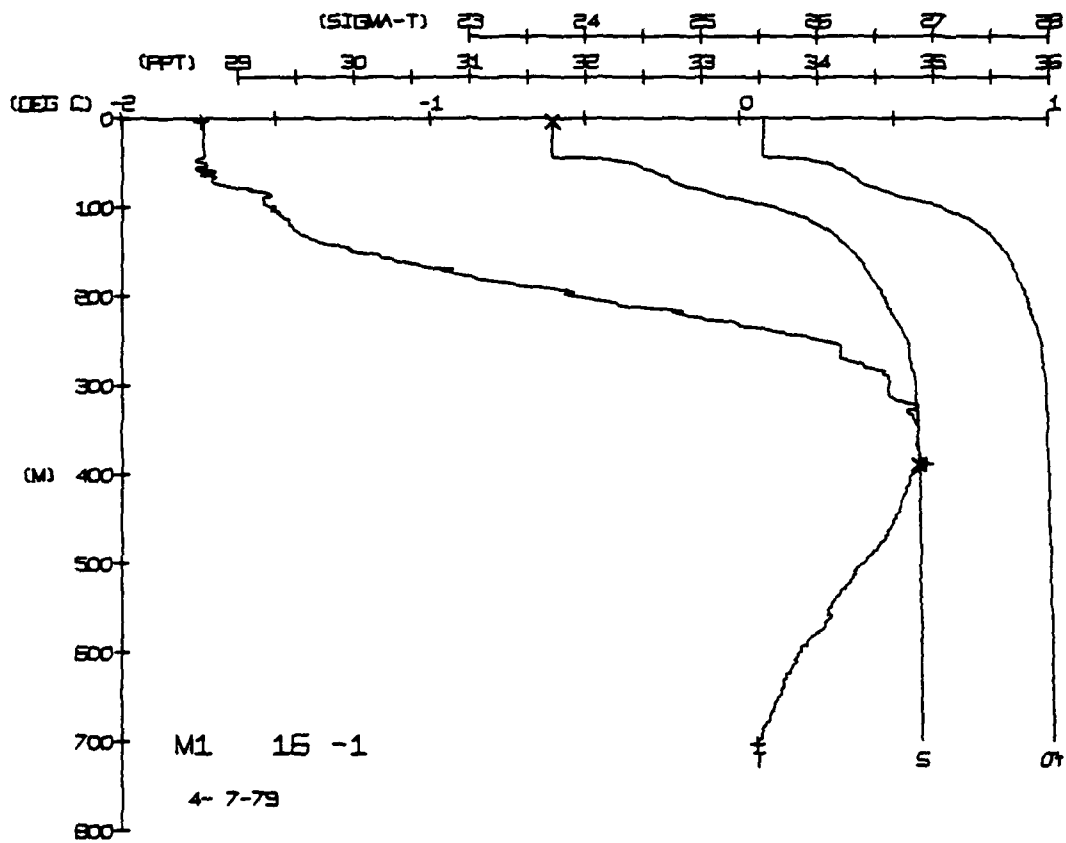
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0	74	74	31	71	25	53	246	0	007	1436	5				
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0	74	74	31	70	25	53	246	0	037	1436	7				
0	74	74	31	70	25	53	246	0	050	1436	8				
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0	74	74	31	70	25	53	246	0	074	1437	0				
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0	74	74	31	70	25	53	246	0	150	1439	4				
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0	74	74	31	70	25	53	246	0	233	1444	0				
0	74	74	31	70	25	53	246	0	238	1444	0				
0	74	74	31	70	25	53	246	0	242	1444	0				
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 BOT NUM = 3
 BOT NUM = 4
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 390 7
 698 6
 TEMP -1.74
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 0.05
 SALIN 31.70
 31.69
 34.87
 34.90



2D

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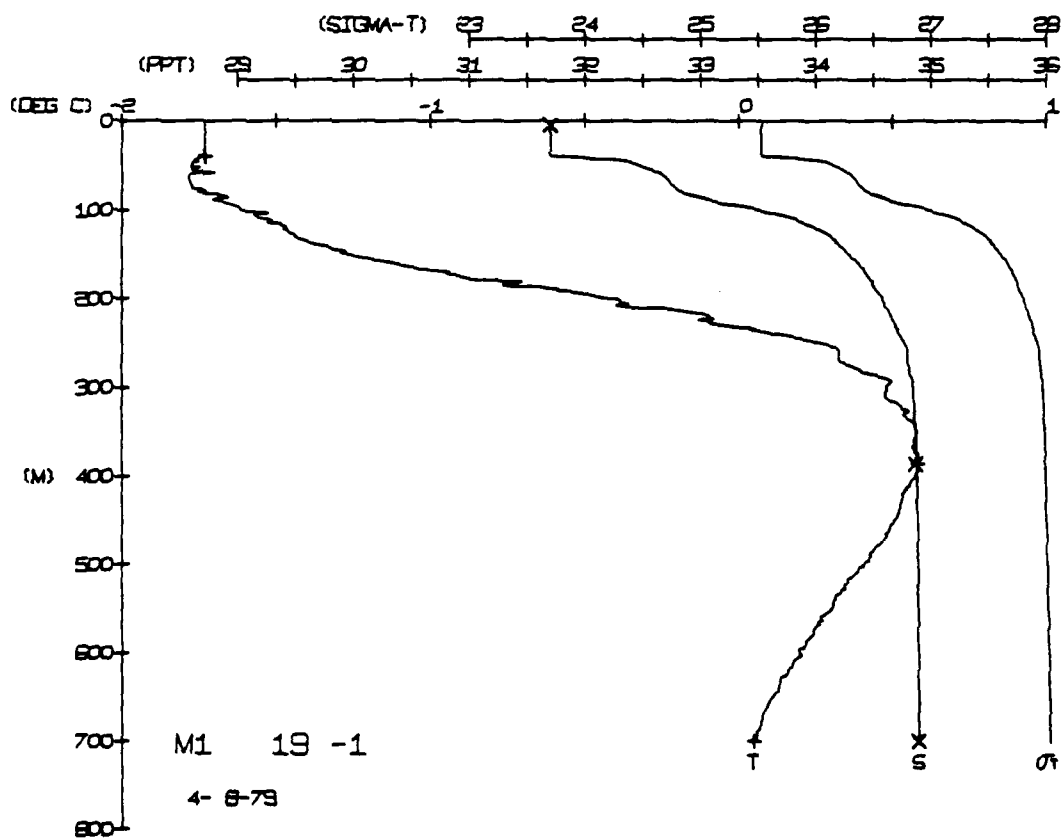
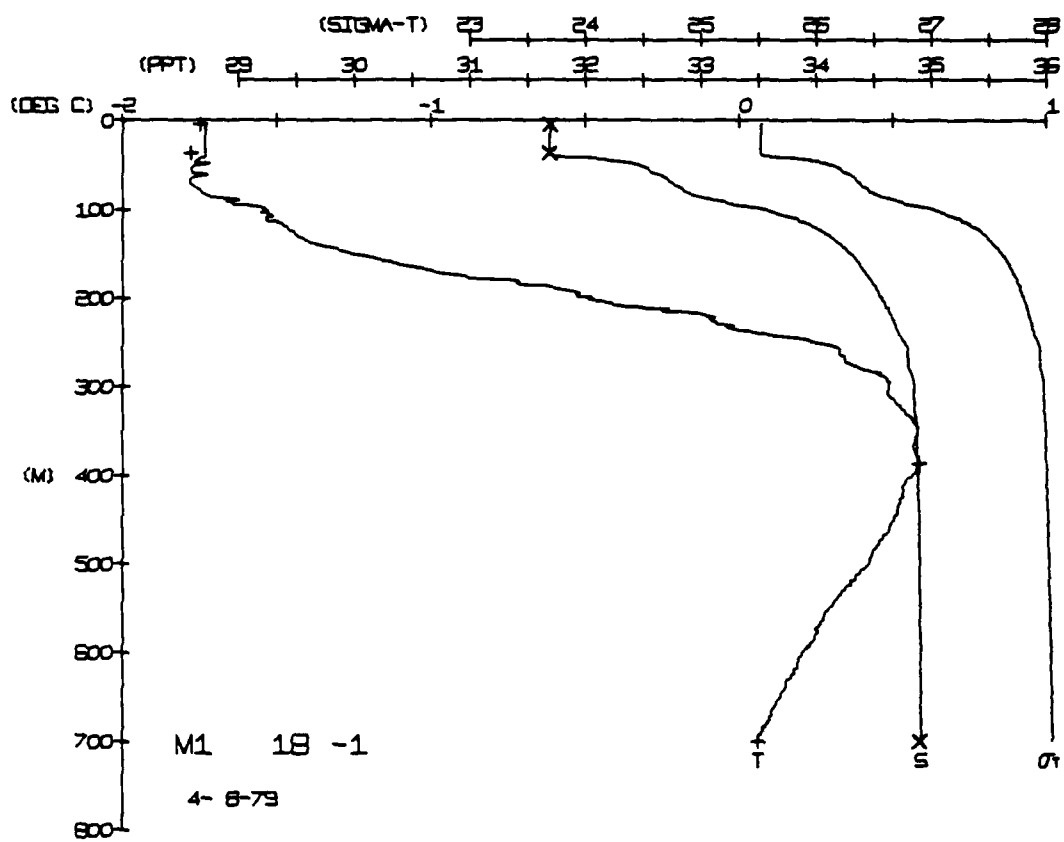


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FRAM 1 STATION 19(1) CTD 8/APR/1979 1933 GMT CODE = 1
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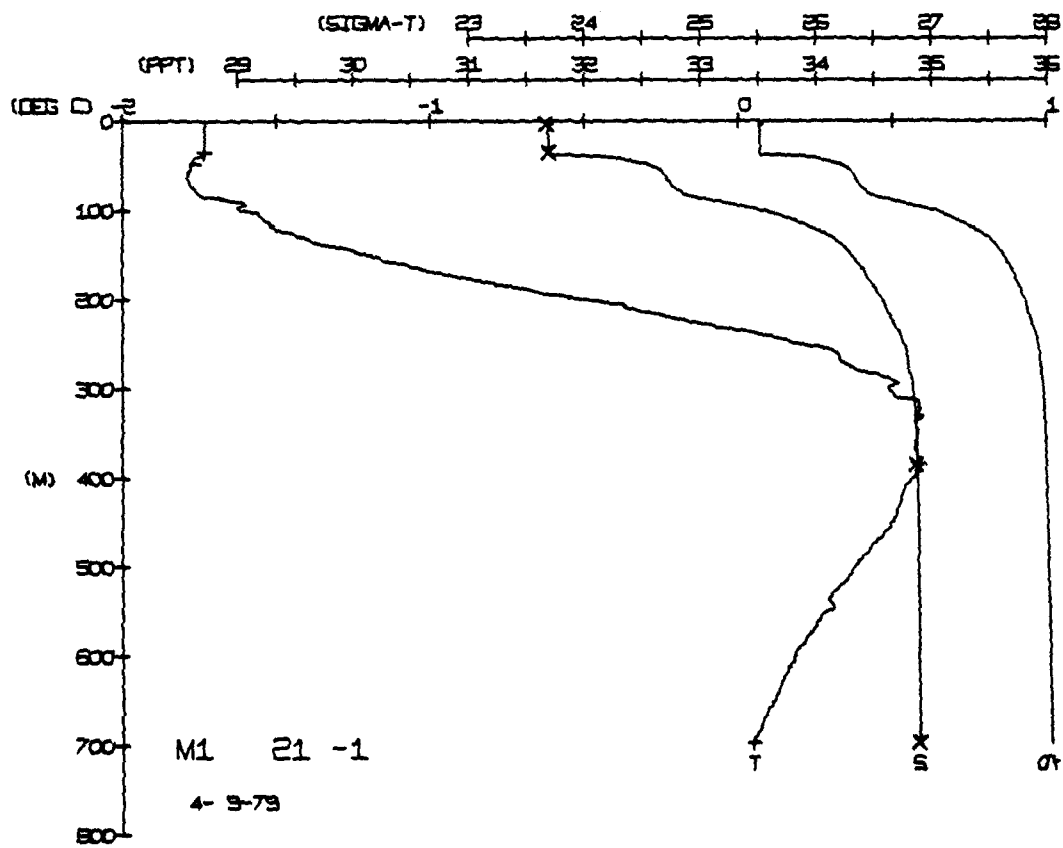
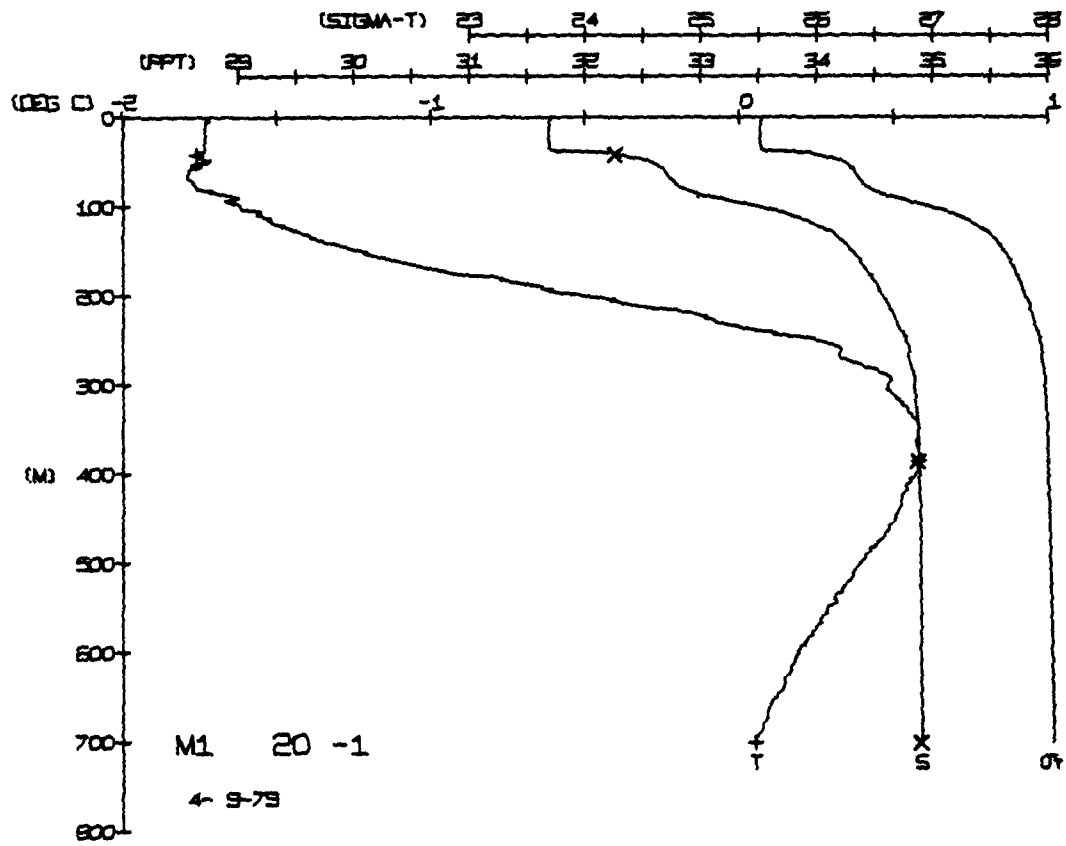
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4	73	73	71	53	246	000	1436
5	73	73	71	53	246	000	1436
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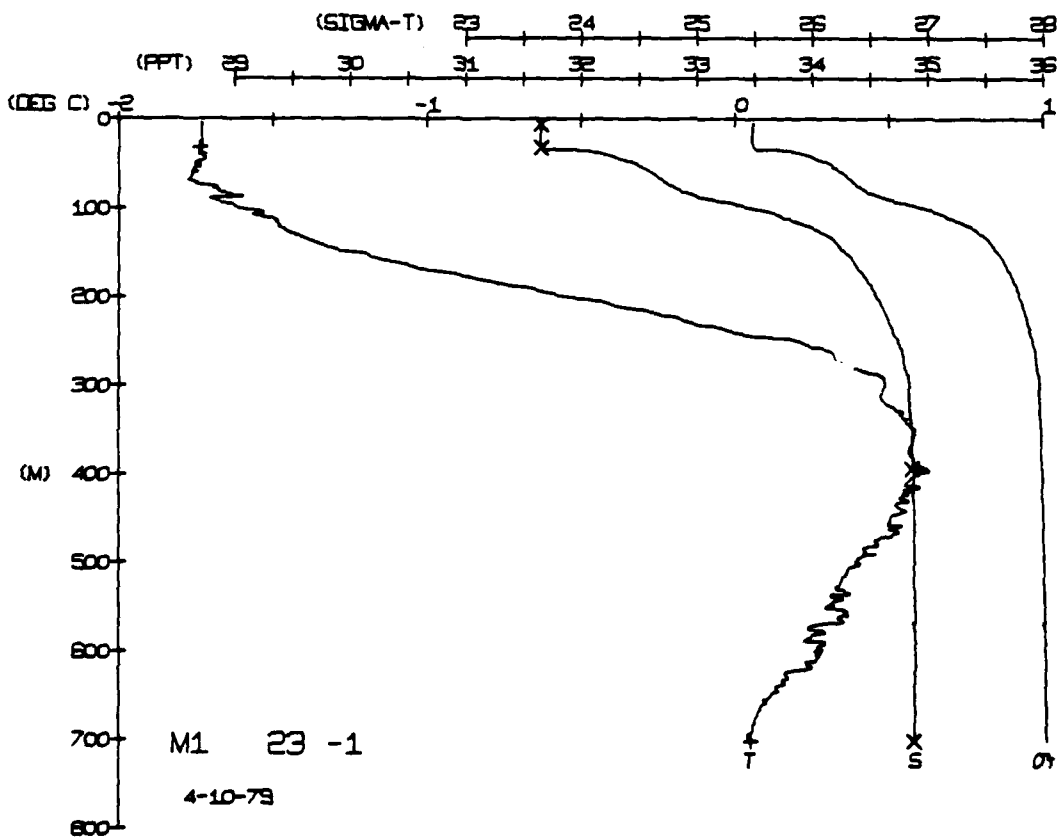
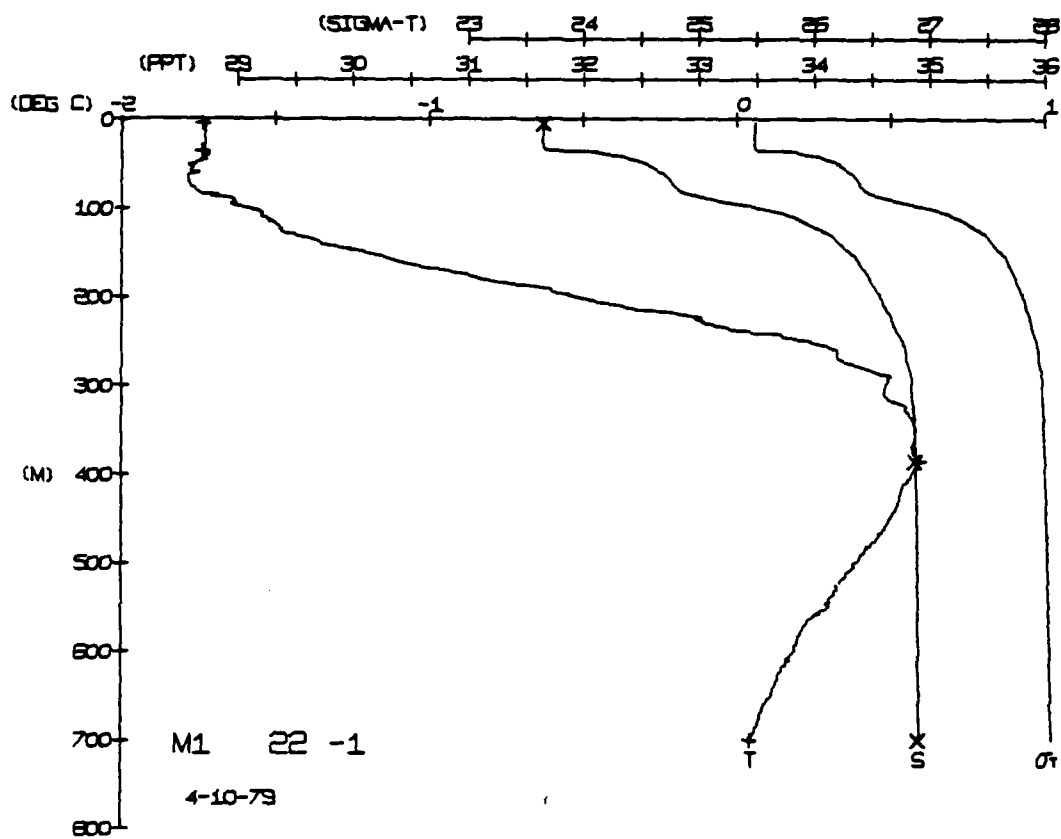
FRAM 1 STATION 21(1) CTD 9/APR/1979 1923 GMT CODE = 1
LAT = 84 5977N LNG = 9 1676W LTER = 0 LGER = 0
AIR TEMP = -28 0 BARDOM = 1044 6 WIND = 163 0 SPEED = 1 9

[illegible]



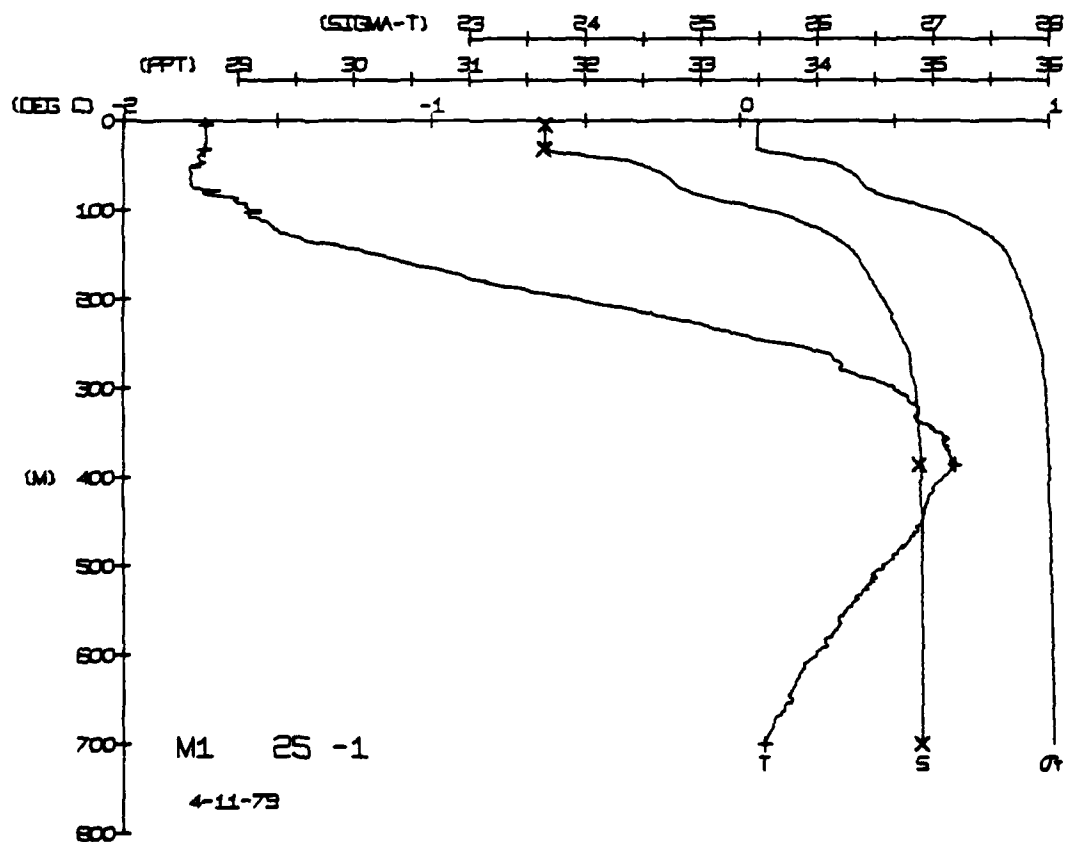
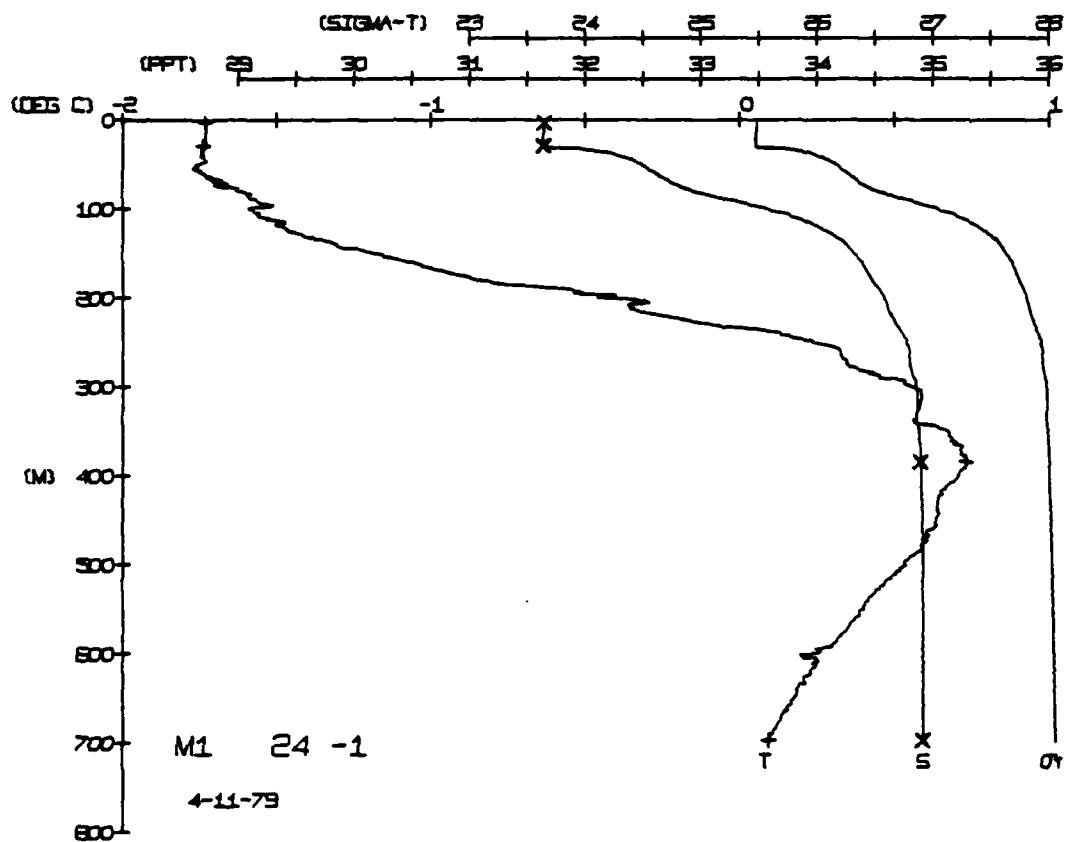
FRAM 1 STATION 22(1) CTD 10/APR/1979 700 GMT CODE = 1
LAT = 84.3965N LNG = 125.14W LTER = 1.0 LGER = 2.2
AIR TEMP = -28.0 BAROM = 1021.2 WIND = 163.0 SPEED = 1.9

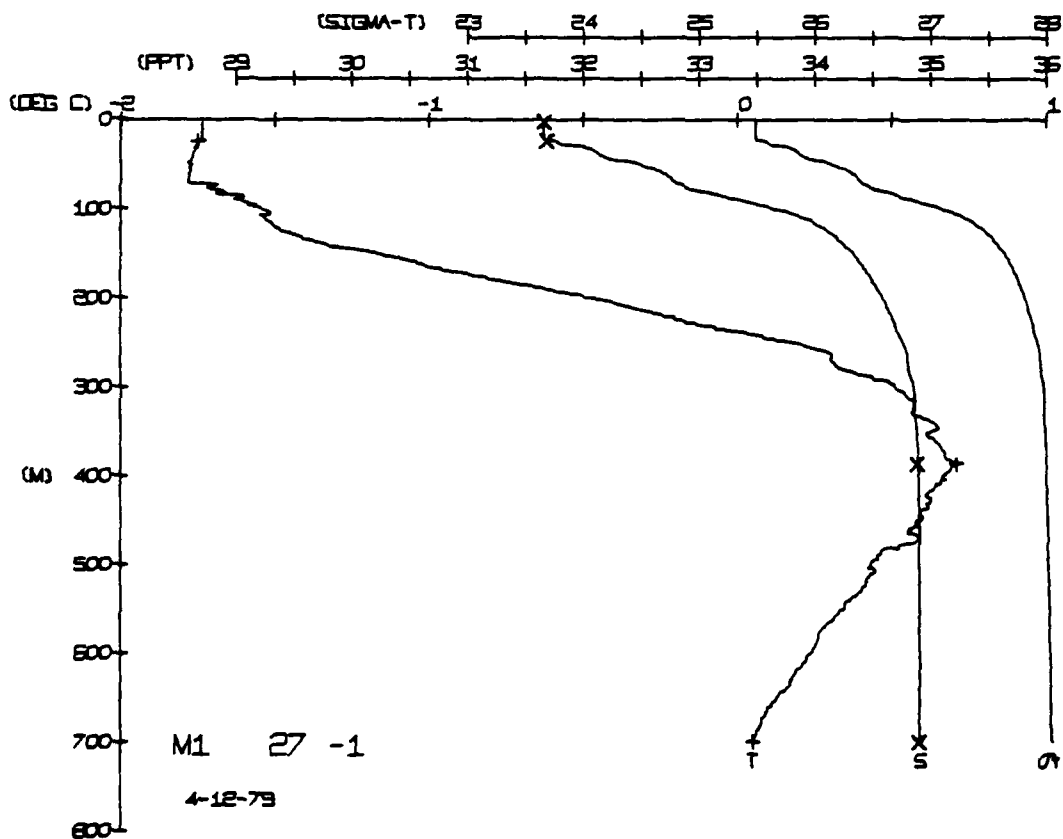
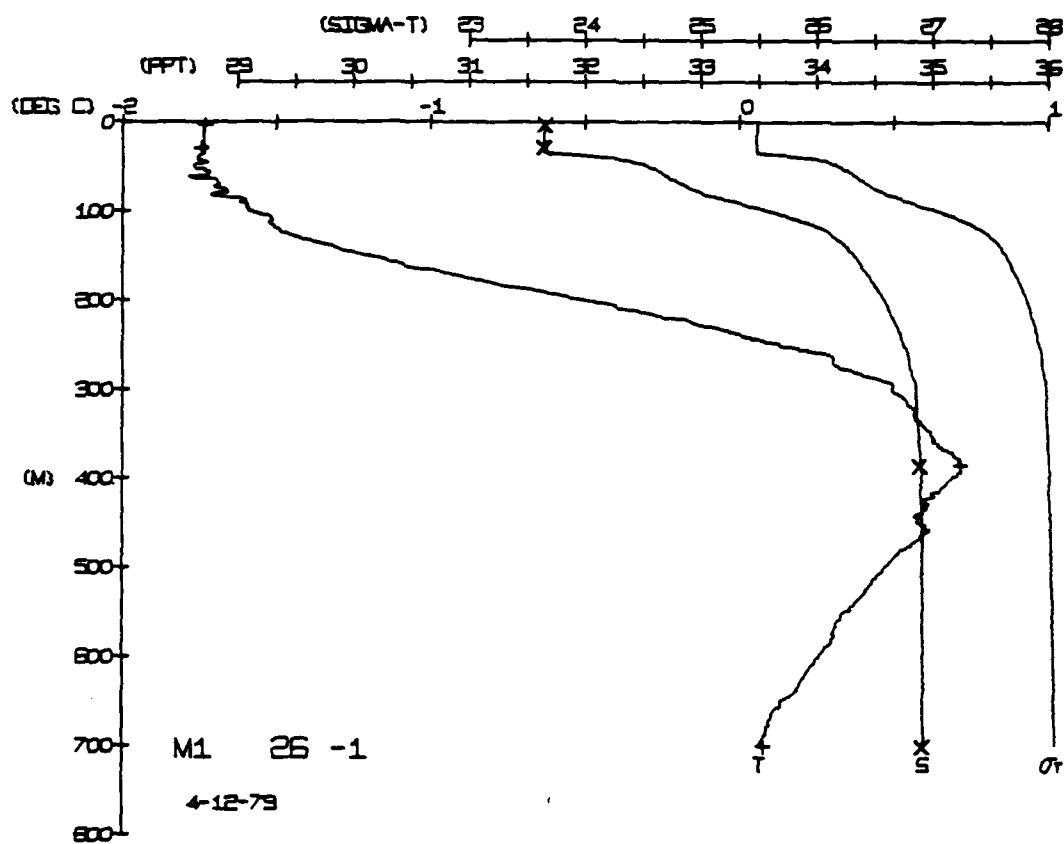
DEPTH	TEMP	PTMP	SALIN	SIG T	SPVOL	DYNT	SOUND
0	73	73	31.65	25.49	250	0.008	1436.6
1	73	73	31.65	25.49	380	0.008	1436.6
2	73	73	31.65	25.49	570	0.008	1436.6
3	73	73	31.65	25.49	760	0.008	1436.6
4	73	73	31.65	25.49	950	0.008	1436.6
5	73	73	31.65	25.49	1140	0.008	1436.6
6	73	73	31.65	25.49	1330	0.008	1436.6
7	73	73	31.65	25.49	1520	0.008	1436.6
8	73	73	31.65	25.49	1710	0.008	1436.6
9	73	73	31.65	25.49	1900	0.008	1436.6
10	73	73	31.65	25.49	2090	0.008	1436.6
11	73	73	31.65	25.49	2280	0.008	1436.6
12	73	73	31.65	25.49	2470	0.008	1436.6
13	73	73	31.65	25.49	2660	0.008	1436.6
14	73	73	31.65	25.49	2850	0.008	1436.6
15	73	73	31.65	25.49	3040	0.008	1436.6
16	73	73	31.65	25.49	3230	0.008	1436.6
17	73	73	31.65	25.49	3420	0.008	1436.6
18	73	73	31.65	25.49	3610	0.008	1436.6
19	73	73	31.65	25.49	3800	0.008	1436.6
20	73	73	31.65	25.49	3990	0.008	1436.6
21	73	73	31.65	25.49	4180	0.008	1436.6
22	73	73	31.65	25.49	4370	0.008	1436.6
23	73	73	31.65	25.49	4560	0.008	1436.6
24	73	73	31.65	25.49	4750	0.008	1436.6
25	73	73	31.65	25.49	4940	0.008	1436.6
26	73	73	31.65	25.49	5130	0.008	1436.6
27	73	73	31.65	25.49	5320	0.008	1436.6
28	73	73	31.65	25.49	5510	0.008	1436.6
29	73	73	31.65	25.49	5700	0.008	1436.6
30	73	73	31.65	25.49	5890	0.008	1436.6
31	73	73	31.65	25.49	6080	0.008	1436.6
32	73	73	31.65	25.49	6270	0.008	1436.6
33	73	73	31.65	25.49	6460	0.008	1436.6
34	73	73	31.65	25.49	6650	0.008	1436.6
35	73	73	31.65	25.49	6840	0.008	1436.6
36	73	73	31.65	25.49	7030	0.008	1436.6
37	73	73	31.65	25.49	7220	0.008	1436.6
38	73	73	31.65	25.49	7410	0.008	1436.6
39	73	73	31.65	25.49	7600	0.008	1436.6
40	73	73	31.65	25.49	7790	0.008	1436.6
41	73	73	31.65	25.49	7980	0.008	1436.6
42	73	73	31.65	25.49	8170	0.008	1436.6
43	73	73	31.65	25.49	8360	0.008	1436.6
44	73	73	31.65	25.49	8550	0.008	1436.6
45	73	73	31.65	25.49	8740	0.008	1436.6
46	73	73	31.65	25.49	8930	0.008	1436.6
47	73	73	31.65	25.49	9120	0.008	1436.6
48	73	73	31.65	25.49	9310	0.008	1436.6
49	73	73	31.65	25.49	9500	0.008	1436.6
50	73	73	31.65	25.49	9690	0.008	1436.6
51	73	73	31.65	25.49	9880	0.008	1436.6
52	73	73	31.65	25.49	10070	0.008	1436.6
53	73	73	31.65	25.49	10260	0.008	1436.6
54	73	73	31.65	25.49	10450	0.008	1436.6
55	73	73	31.65	25.49	10640	0.008	1436.6
56	73	73	31.65	25.49	10830	0.008	1436.6
57	73	73	31.65	25.49	11020	0.008	1436.6
58	73	73	31.65	25.49	11210	0.008	1436.6
59	73	73	31.65	25.49	11400	0.008	1436.6
60	73	73	31.65	25.49	11590	0.008	1436.6
61	73	73	31.65	25.49	11780	0.008	1436.6
62	73	73	31.65	25.49	11970	0.008	1436.6
63	73	73	31.65	25.49	12160	0.008	1436.6
64	73	73	31.65	25.49	12350	0.008	1436.6
65	73	73	31.65	25.49	12540	0.008	1436.6
66	73	73	31.65	25.49	12730	0.008	1436.6
67	73	73	31.65	25.49	12920	0.008	1436.6
68	73	73	31.65	25.49	13110	0.008	1436.6
69	73	73	31.65	25.49	13300	0.008	1436.6
70	73	73	31.65	25.49	13490	0.008	1436.6
71	73	73	31.65	25.49	13680	0.008	1436.6
72	73	73	31.65	25.49	13870	0.008	1436.6
73	73	73	31.65	25.49	14060	0.008	1436.6
74	73	73	31.65	25.49	14250	0.008	1436.6
75	73	73	31.65	25.49	14440	0.008	1436.6
76	73	73	31.65	25.49	14630	0.008	1436.6
77	73	73	31.65	25.49	14820	0.008	1436.6
78	73	73	31.65	25.49	15010	0.008	1436.6
79	73	73	31.65	25.49	15200	0.008	1436.6
80	73	73	31.65	25.49	15390	0.008	1436.6
81	73	73	31.65	25.49	15580	0.008	1436.6
82	73	73	31.65	25.49	15770	0.008	1436.6
83	73	73	31.65	25.49	15960	0.008	1436.6
84	73	73	31.65	25.49	16150	0.008	1436.6
85	73	73	31.65	25.49	16340	0.008	1436.6
86	73	73	31.65	25.49	16530	0.008	1436.6
87	73	73	31.65	25.49	16720	0.008	1436.6
88	73	73	31.65	25.49	16910	0.008	1436.6
89	73	73	31.65	25.49	17100	0.008	1436.6
90	73	73	31.65	25.49	17290	0.008	1436.6
91	73	73	31.65	25.49	17480	0.008	1436.6
92	73	73	31.65	25.49	17670	0.008	1436.6
93	73	73	31.65	25.49	17860	0.008	1436.6
94	73	73	31.65	25.49	18050	0.008	1436.6
95	73	73	31.65	25.49	18240	0.008	1436.6
96	73	73	31.65	25.49	18430	0.008	1436.6
97	73	73	31.65	25.49	18620	0.008	1436.6
98	73	73	31.65	25.49	18810	0.008	1436.6
99	73	73	31.65	25.49	19000	0.008	1436.6
100	73	73	31.65	25.49	19190	0.008	1436.6
101	73	73	31.65	25.49	19380	0.008	1436.6
102	73	73	31.65	25.49	19570	0.008	1436.6
103	73	73	31.65	25.49	19760	0.008	1436.6
104	73	73	31.65	25.49	19950	0.008	1436.6
105	73	73	31.65	25.49	20140	0.008	1436.6
106	73	73	31.65	25.49	20330	0.008	1436.6
107	73	73	31.65	25.49	20520	0.008	1436.6
108	73	73	31.65	25.49	20710	0.008	1436.6
109	73	73	31.65	25.49	20900	0.008	1436.6
110	73	73	31.65	25.49	21090	0.008	1436.6
111	73	73	31.65	25.49	21280	0.008	1436.6
112	73	73	31.65	25.49	21470	0.008	1436.6
113	73	73	31.65	25.49	21660	0.008	1436.6
114	73	73	31.65	25.49	21850	0.008	1436.6
115	73	73	31.65	25.49	22040	0.008	1436.6
116	73	73	31.65	25.49	22230	0.008	1436.6
117	73	73	31.65	25.49	22420	0.008	1436.6
118	73	73	31.65	25.49	22610	0.008	1436.6
119	73	73	31.65	25.49	22800	0.008	1436.6
120	73	73	31.65	25.49	22990	0.008	1436.6
121	73	73	31.65	25.49	23180	0.008	1436.6
122	73	73	31.65	25.49	23370	0.008	1436.6
123	73	73	31.65	25.49	23560	0.008	1436.6
124	73	73	31.65	25.49	23750	0.008	1436.6
125	73	73	31.65	25.49	23940	0.008	1436.6
126	73	73	31.65	25.49	24130	0.008	1436.6
127	73	73	31.65	25.49	24320	0.008	1436.6
128	73	73	31.65	25.49	24510	0.008	1436.6
129	73	73	31.65	25.49	24700	0.008	1436.6
130	73	73	31.65	25.49	24890	0.008	1436.6
131	73	73	31.65	25.49	25080	0.008	1436.6
132	73	73	31.65	25.49	25270	0.008	1436.6
133	73	73	31.65	25.49	25460	0.008	1436.6
134	73	73	31.65	25.49	25650	0.008	1436.6
135	73	73	31.65	25.49	25840	0.008	1436.6
136	73	73	31.65	25.49	26030	0.008	1436.6
137	73	73	31.65	25.49	26220	0.008	1436.6
138	73	73	31.65	25.49	26410	0.008	1436.6
139	73	73	31.65	25.49	26600	0.008	1436.6
140	73	73	31.65	25.49	26790	0.008	1436.6
141	73	73	31.65	25.49	26980	0.008	1436.6
142	73	73	31.65	25.49	27170	0.008	1436.6
143	73	73	31.65	25.49	27360	0.008	1436.6
144	73	73	31.65	25.49	27550	0.008	1436.6
145	73	73	31.65	25.49	27740	0.008	1436.6
146	73	73	31.65	25.49	27930	0.008	1436.6
147	73	73	31.65	25.49	28120	0.008	1436.6
148	73	73	31.65	25.49	28310	0.008	1436.6
149	73	73	31.65	25.49	28500	0.008	1436.6
150	73	73	31.65	25.49	28690	0.008	1436.6
151	73	73	31.65	25.49	28880	0.008	1436.6
152	73	73	31.65	25.49	29070	0.008	1436.6
153	73	73	31.65	25.49	29260	0.008	1436.6
154	73	73	31.65	25.49	29450	0.008	1436.6
155	73	73	31.65	25.49	29640	0.008	1436.6
156	73	73	31.65	25.49	29830	0.008	1436.6
157	73	73	31.65	25.49	30020	0.008	1436.6
158	73	73	31.65	25.49	30210	0.008	1436.6
159	73	73	31.65	25.49	30400	0.008	1436.6
160							



DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYNHT	SOUND
0	73.33	73.33	33.16	48.88	250.1	0.00	143.6
10	73.33	73.33	33.16	48.88	250.1	0.00	143.6
20	73.33	73.33	33.16	48.88	250.1	0.00	143.6
30	73.33	73.33	33.16	48.88	250.1	0.00	143.6
40	73.33	73.33	33.16	48.88	250.1	0.00	143.6
50	73.33	73.33	33.16	48.88	250.1	0.00	143.6
60	73.33	73.33	33.16	48.88	250.1	0.00	143.6
70	73.33	73.33	33.16	48.88	250.1	0.00	143.6
80	73.33	73.33	33.16	48.88	250.1	0.00	143.6
90	73.33	73.33	33.16	48.88	250.1	0.00	143.6
100	73.33	73.33	33.16	48.88	250.1	0.00	143.6
110	73.33	73.33	33.16	48.88	250.1	0.00	143.6
120	73.33	73.33	33.16	48.88	250.1	0.00	143.6
130	73.33	73.33	33.16	48.88	250.1	0.00	143.6
140	73.33	73.33	33.16	48.88	250.1	0.00	143.6
150	73.33	73.33	33.16	48.88	250.1	0.00	143.6
160	73.33	73.33	33.16	48.88	250.1	0.00	143.6
170	73.33	73.33	33.16	48.88	250.1	0.00	143.6
180	73.33	73.33	33.16	48.88	250.1	0.00	143.6
190	73.33	73.33	33.16	48.88	250.1	0.00	143.6
200	73.33	73.33	33.16	48.88	250.1	0.00	143.6
210	73.33	73.33	33.16	48.88	250.1	0.00	143.6
220	73.33	73.33	33.16	48.88	250.1	0.00	143.6
230	73.33	73.33	33.16	48.88	250.1	0.00	143.6
240	73.33	73.33	33.16	48.88	250.1	0.00	143.6
250	73.33	73.33	33.16	48.88	250.1	0.00	143.6
260	73.33	73.33	33.16	48.88	250.1	0.00	143.6
270	73.33	73.33	33.16	48.88	250.1	0.00	143.6
280	73.33	73.33	33.16	48.88	250.1	0.00	143.6
290	73.33	73.33	33.16	48.88	250.1	0.00	143.6
300	73.33	73.33	33.16	48.88	250.1	0.00	143.6
310	73.33	73.33	33.16	48.88	250.1	0.00	143.6
320	73.33	73.33	33.16	48.88	250.1	0.00	143.6
330	73.33	73.33	33.16	48.88	250.1	0.00	143.6
340	73.33	73.33	33.16	48.88	250.1	0.00	143.6
350	73.33	73.33	33.16	48.88	250.1	0.00	143.6
360	73.33	73.33	33.16	48.88	250.1	0.00	143.6
370	73.33	73.33	33.16	48.88	250.1	0.00	143.6
380	73.33	73.33	33.16	48.88	250.1	0.00	143.6
390	73.33	73.33	33.16	48.88	250.1	0.00	143.6
400	73.33	73.33	33.16	48.88	250.1	0.00	143.6
410	73.33	73.33	33.16	48.88	250.1	0.00	143.6
420	73.33	73.33	33.16	48.88	250.1	0.00	143.6
430	73.33	73.33	33.16	48.88	250.1	0.00	143.6
440	73.33	73.33	33.16	48.88	250.1	0.00	143.6
450	73.33	73.33	33.16	48.88	250.1	0.00	143.6
460	73.33	73.33	33.16	48.88	250.1	0.00	143.6
470	73.33	73.33	33.16	48.88	250.1	0.00	143.6
480	73.33	73.33	33.16	48.88	250.1	0.00	143.6
490	73.						

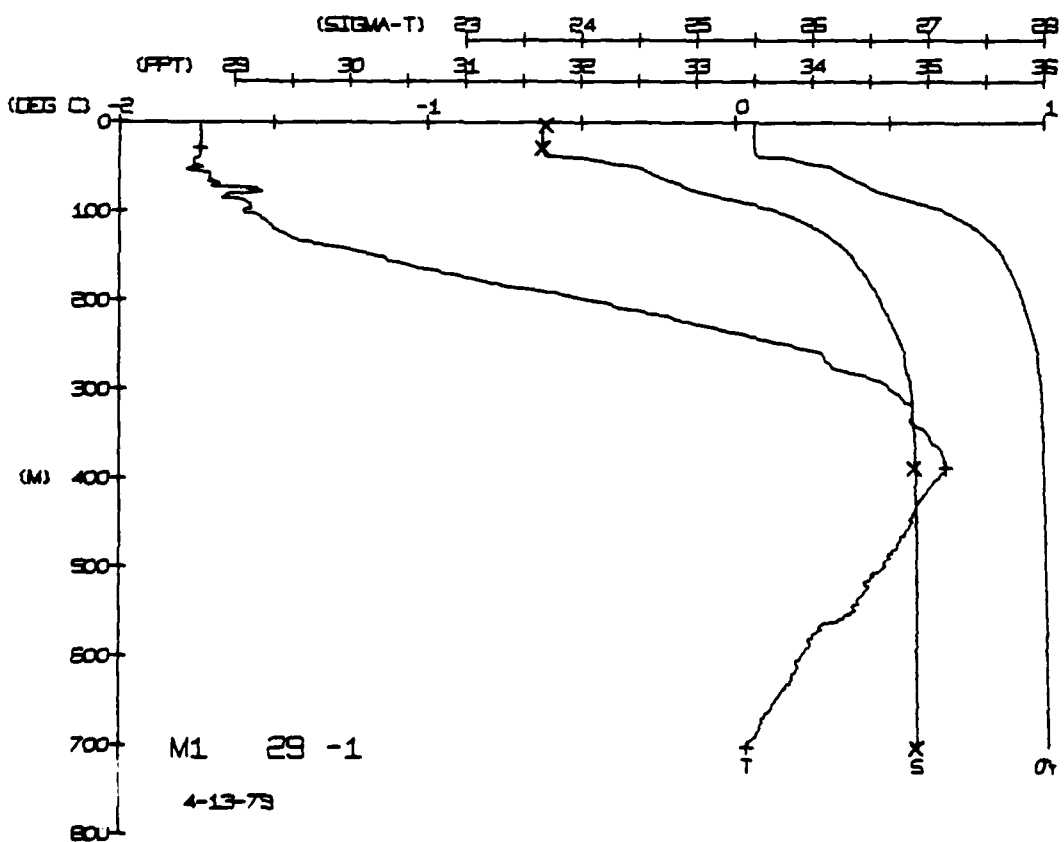
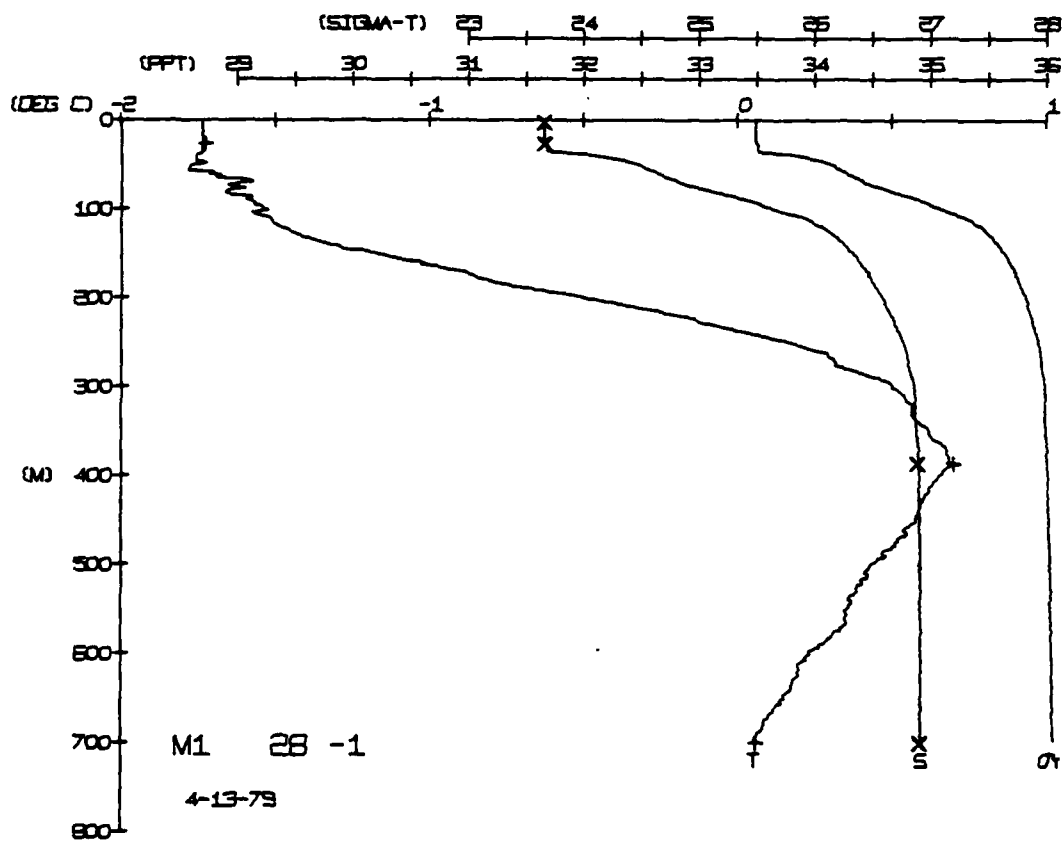
DEPTH	TEMP	PIEMP	SALIN	SIG T	SPVCL	DYNHT	SOUND
0	73	73	67	50	49	008	1436
3	73	73	66	50	49	008	1436
5	73	73	66	48	49	013	1436
10	73	73	64	48	50	028	1436
15	73	73	64	47	51	050	1436
20	73	73	64	47	51	063	1436
25	73	73	64	47	51	074	1436
30	73	73	64	47	51	088	1436
35	73	73	64	47	51	100	1436
40	73	73	64	47	51	120	1436
45	73	73	64	47	51	140	1436
50	73	73	64	47	51	165	1436
55	73	73	64	47	51	186	1436
60	73	73	64	47	51	208	1436
65	73	73	64	47	51	231	1436
70	73	73	64	47	51	255	1436
75	73	73	64	47	51	277	1436
80	73	73	64	47	51	300	1436
85	73	73	64	47	51	324	1436
90	73	73	64	47	51	347	1436
95	73	73	64	47	51	369	1436
100	73	73	64	47	51	391	1436
105	73	73	64	47	51	414	1436
110	73	73	64	47	51	437	1436
115	73	73	64	47	51	460	1436
120	73	73	64	47	51	483	1436
125	73	73	64	47	51	506	1436
130	73	73	64	47	51	529	1436
135	73	73	64	47	51	552	1436
140	73	73	64	47	51	575	1436
145	73	73	64	47	51	598	1436
150	73	73	64	47	51	621	1436
155	73	73	64	47	51	644	1436
160	73	73	64	47	51	667	1436
165	73	73	64	47	51	690	1436
170	73	73	64	47	51	713	1436
175	73	73	64	47	51	736	1436
180	73	73	64	47	51	759	1436
185	73	73	64	47	51	782	1436
190	73	73	64	47	51	805	1436
195	73	73	64	47	51	828	1436
200	73	73	64	47	51	851	1436
205	73	73	64	47	51	874	1436
210	73	73	64	47	51	897	1436
215	73	73	64	47	51	920	1436
220	73	73	64	47	51	943	1436
225	73	73	64	47	51	966	1436
230	73	73	64	47	51	989	1436
235	73	73	64	47	51	1012	1436
240	73	73	64	47	51	1035	1436
245	73	73	64	47	51	1058	1436
250	73	73	64	47	51	1081	1436
255	73	73	64	47	51	1104	1436
260	73	73	64	47	51	1127	1436
265	73	73	64	47	51	1150	1436
270	73	73	64	47	51	1173	1436
275	73	73	64	47	51	1196	1436
280	73	73	64	47	51	1219	1436
285	73	73	64	47	51	1242	1436
290	73	73	64	47	51	1265	1436
295	73	73	64	47	51	1288	1436
300	73	73	64	47	51	1311	1436





FRAM 1 STATION 28(1) CTD 13/APR/1979 704 GMT CODE = 1
LAT = 84 516N LNO = 9 1220W LTER = 0 LGER = 0
AIR TEMP = -29.8 BAROM = 1034.3 WIND = 63.0 SPEED = 3.2

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYHNT	SOUND
0	74	74	31.66	25.50	249.6	0.000	1436.4
1	74	74	31.66	25.50	249.6	0.008	1436.5
3	74	74	31.66	25.50	249.6	0.013	1436.6
5	74	74	31.66	25.50	249.6	0.025	1436.7
10	74	74	31.66	25.50	249.6	0.030	1436.8
15	74	74	31.66	25.50	249.6	0.035	1436.9
20	74	74	31.66	25.50	249.6	0.038	1437.0
25	74	74	31.66	25.50	249.6	0.040	1437.1
30	74	74	31.66	25.50	249.6	0.042	1437.2
35	74	74	31.66	25.50	249.6	0.044	1437.3
40	74	74	31.66	25.50	249.6	0.046	1437.4
45	74	74	31.66	25.50	249.6	0.048	1437.5
50	74	74	31.66	25.50	249.6	0.050	1437.6
55	74	74	31.66	25.50	249.6	0.052	1437.7
60	74	74	31.66	25.50	249.6	0.054	1437.8
65	74	74	31.66	25.50	249.6	0.056	1437.9
70	74	74	31.66	25.50	249.6	0.058	1438.0
75	74	74	31.66	25.50	249.6	0.060	1438.1
80	74	74	31.66	25.50	249.6	0.062	1438.2
85	74	74	31.66	25.50	249.6	0.064	1438.3
90	74	74	31.66	25.50	249.6	0.066	1438.4
95	74	74	31.66	25.50	249.6	0.068	1438.5
100	74	74	31.66	25.50	249.6	0.070	1438.6
105	74	74	31.66	25.50	249.6	0.072	1438.7
110	74	74	31.66	25.50	249.6	0.074	1438.8
115	74	74	31.66	25.50	249.6	0.076	1438.9
120	74	74	31.66	25.50	249.6	0.078	1439.0
125	74	74	31.66	25.50	249.6	0.080	1439.1
130	74	74	31.66	25.50	249.6	0.082	1439.2
135	74	74	31.66	25.50	249.6	0.084	1439.3
140	74	74	31.66	25.50	249.6	0.086	1439.4
145	74	74	31.66	25.50	249.6	0.088	1439.5
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155	74	74	31.66	25.50	249.6	0.092	1439.7
160	74	74	31.66	25.50	249.6	0.094	1439.8
165	74	74	31.66	25.50	249.6	0.096	1439.9
170	74	74	31.66	25.50	249.6	0.098	1440.0
175	74	74	31.66	25.50	249.6	0.100	1440.1
180	74	74	31.66	25.50	249.6	0.102	1440.2
185	74	74	31.66	25.50	249.6	0.104	1440.3
190	74	74	31.66	25.50	249.6	0.106	1440.4
195	74	74	31.66	25.50	249.6	0.108	1440.5
200	74	74	31.66	25.50	249.6	0.110	1440.6
205	74	74	31.66	25.50	249.6	0.112	1440.7
210	74	74	31.66	25.50	249.6	0.114	1440.8
215	74	74	31.66	25.50	249.6	0.116	1440.9
220	74	74	31.66	25.50	249.6	0.118	1441.0
225	74	74	31.66	25.50	249.6	0.120	1441.1
230	74	74	31.66	25.50	249.6	0.122	1441.2
235	74	74	31.66	25.50	249.6	0.124	1441.3
240	74	74	31.66	25.50	249.6	0.126	1441.4
245	74	74	31.66	25.50	249.6	0.128	1441.5
250	74	74	31.66	25.50	249.6	0.130	1441.6
255	74	74	31.66	25.50	249.6	0.132	1441.7
260	74	74	31.66	25.50	249.6	0.134	1441.8
265	74	74	31.66	25.50	249.6	0.136	1441.9
270	74	74	31.66	25.50	249.6	0.138	1442.0
275	74	74	31.66	25.50	249.6	0.140	1442.1
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445	74	74	31.66	25.50	249.6	0.208	1445.5
450	74	74	31.66	25.50	249.6	0.210	1445.6
455	74	74	31.66	25.50	249.6	0.212	1445.7
460	74	74	31.66	25.50	249.6	0.214	1445.8
465	74	74	31.66	25.50	249.6	0.216	1445.9
470	74	74	31.66	25.50	249.6	0.218	1446.0
475	74	74	31.66	25.50	249.6	0.220	1446.1
480	74	74	31.66	25.50	249.6	0.222	1446.2
485	74	74	31.66	25.50	249.6	0.224	1446.3
490	74	74	31.66	25.50	249.6	0.226	1446.4
495	74	74	31.66	25.50	249.6	0.228	1446.5
500	74	74	31.66	25.50	249.6	0.230	1446.6
505	74	74	31.66	25.50	249.6	0.232	1446.7
510	74	74	31.66	25.50	249.6	0.234	1446.8
515	74	74	31.66	25.50	249.6	0.236	1446.9
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525	74	74	31.66	25.50	249.6	0.240	1447.1
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535	74	74	31.66	25.50	249.6	0.244	1447.3
540	74	74	31.66	25.50	249.6	0.246	1447.4
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560	74	74	31.66	25.50	249.6	0.254	1447.8
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580	74	74	31.66	25.50	249.6	0.262	1448.2
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600	74	74	31.66	25.50	249.6	0.270	1448.6
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615	74	74	31.66	25.50	249.6	0.276	1448.9
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625	74	74	31.66	25.50	249.6	0.280	1449.1
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665	74	74	31.66	25.50	249.6	0.296	1449.9
670	74	74	31.66	25.50	249.6	0.298	1450.0
675	74	74	31.66	25.50	249.6	0.300	1450.1
680	74	74	31.66	25.50	249.6	0.302	1450.2
685	74	74	31.66	25.50	249.6	0.304	1450.3
690	74	74	31.66	25.50	249.6	0.306	1450.4
695	74	74	31.66	25.50	249.6	0.308	1450.5
700	74	74	31.66	25.50	249.6	0.310	1450.6
705	74	74	31.66	25.50	249.6	0.312	1450.7
710	74	74	31.66	25.50	249.6	0.314	1450.8
715	74	74	31.66	25.50	249.6	0.316	1450.9
720	74	74	31.66	25.50	249.6	0.318	1451.0
725	74	74	31.66	25.50	249.6	0.320	1451.1
730	74	74	31.66	25.50	249.6	0.322	1451.2
735	74	74	31.66	25.50	249.6	0.324	1451.3
740	74	74	31.66	25.50	249.6	0.326	1451.4
745	74	74	31.66	25.50	249.6	0.328	1451.5
750	74	74	31.66	25.50	249.6	0.330	1451.6
755	74	74	31.66	25.50	249.6	0.332	1451.7
760	74	74	31.66	25.50	249.6	0.334	1451.8
765	74	74	31.66	25.50	249.6	0.336	1451.9
770	74	74	31.66	25.50	249.6	0.338	1452.0
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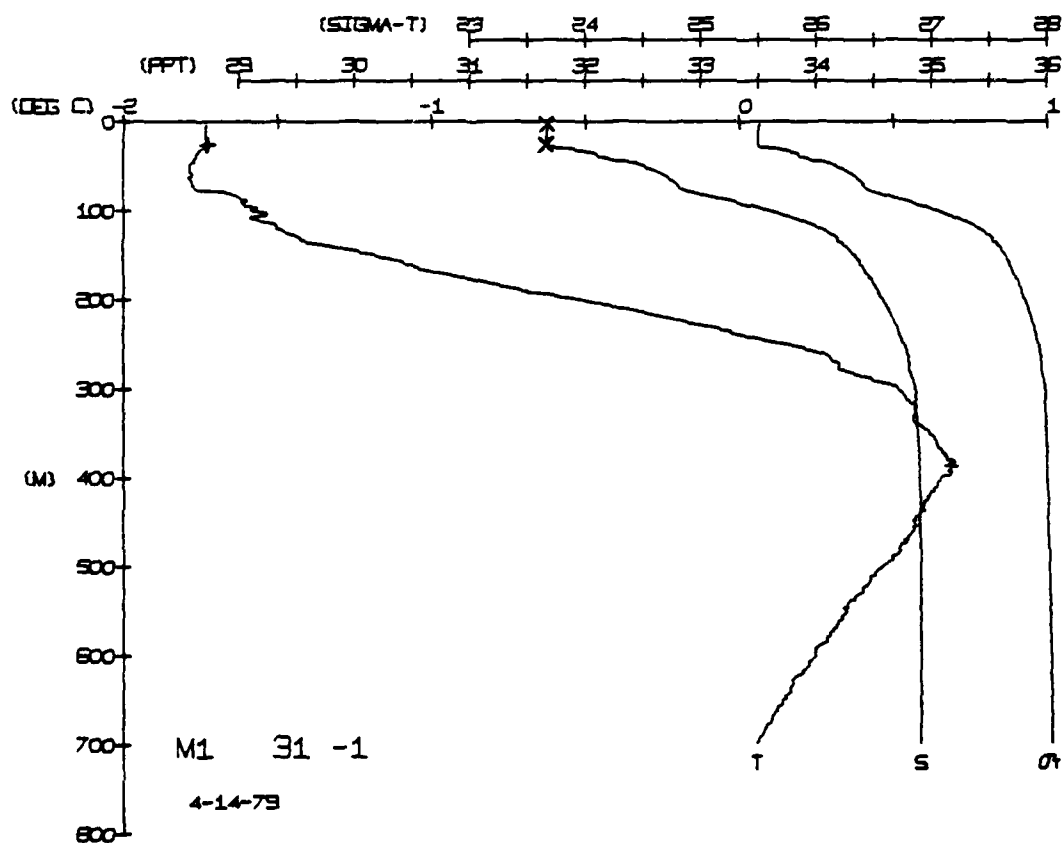
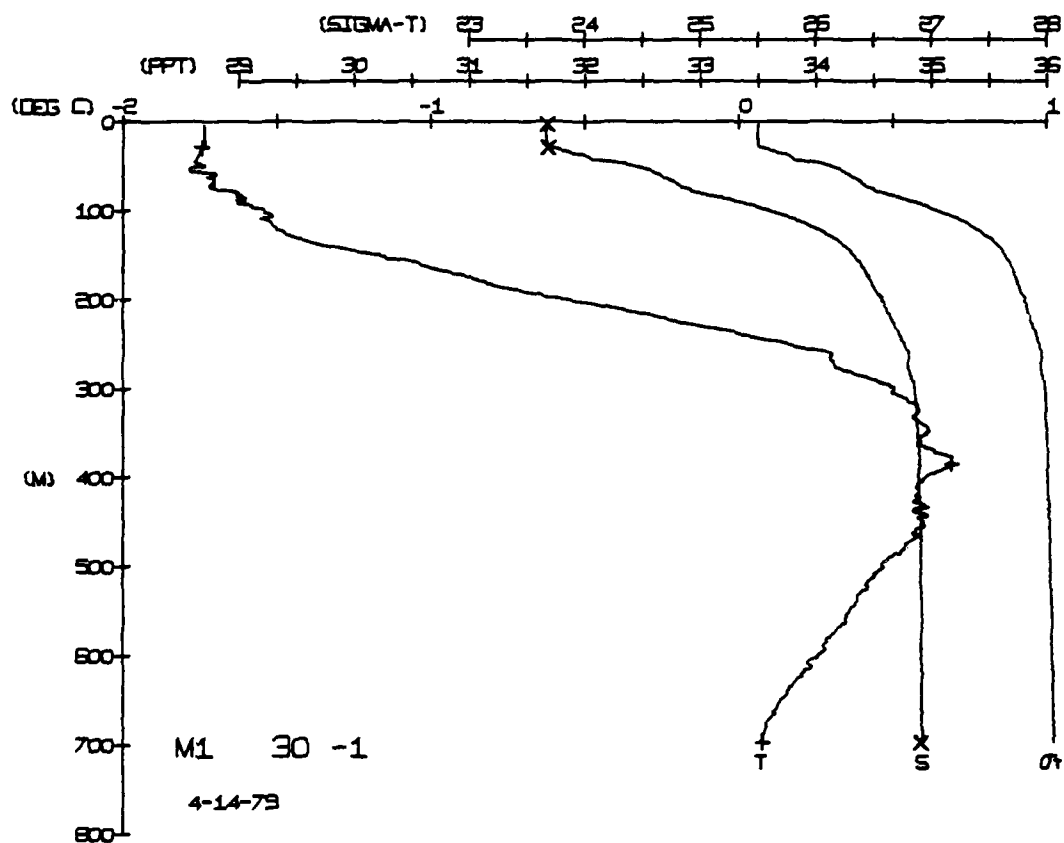


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AIR TEMP = -29.3 BARDOM = 1041.4 WIND = 87.0 SPEED = 2.3

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[illegible]



FRAM 1 STATION 32(1) CTD 15/APR/1979 928 GMT CODE = 1
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 AIR TEMP = -29.3 BAROM = 1041.3 WIND = 87.0 SPEED = 2.3

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3	73	73	31.67	25.50	249	0.025	1436.6
10	73	73	31.67	25.50	249	0.050	1436.7
15	73	73	31.67	25.50	249	0.065	1436.8
20	73	73	31.67	25.50	249	0.080	1436.9
25	73	73	31.67	25.50	249	0.095	1437.0
30	73	73	31.67	25.50	249	0.110	1437.1
35	73	73	31.67	25.50	249	0.125	1437.2
40	73	73	31.67	25.50	249	0.140	1437.3
45	73	73	31.67	25.50	249	0.155	1437.4
50	73	73	31.67	25.50	249	0.170	1437.5
55	73	73	31.67	25.50	249	0.185	1437.6
60	73	73	31.67	25.50	249	0.200	1437.7
65	73	73	31.67	25.50	249	0.215	1437.8
70	73	73	31.67	25.50	249	0.230	1437.9
75	73	73	31.67	25.50	249	0.245	1438.0
80	73	73	31.67	25.50	249	0.260	1438.1
85	73	73	31.67	25.50	249	0.275	1438.2
90	73	73	31.67	25.50	249	0.290	1438.3
95	73	73	31.67	25.50	249	0.305	1438.4
100	73	73	31.67	25.50	249	0.320	1438.5
105	73	73	31.67	25.50	249	0.335	1438.6
110	73	73	31.67	25.50	249	0.350	1438.7
115	73	73	31.67	25.50	249	0.365	1438.8
120	73	73	31.67	25.50	249	0.380	1438.9
125	73	73	31.67	25.50	249	0.395	1439.0
130	73	73	31.67	25.50	249	0.410	1439.1
135	73	73	31.67	25.50	249	0.425	1439.2
140	73	73	31.67	25.50	249	0.440	1439.3
145	73	73	31.67	25.50	249	0.455	1439.4
150	73	73	31.67	25.50	249	0.470	1439.5
155	73	73	31.67	25.50	249	0.485	1439.6
160	73	73	31.67	25.50	249	0.500	1439.7
165	73	73	31.67	25.50	249	0.515	1439.8
170	73	73	31.67	25.50	249	0.530	1439.9
175	73	73	31.67	25.50	249	0.545	1440.0
180	73	73	31.67	25.50	249	0.560	1440.1
185	73	73	31.67	25.50	249	0.575	1440.2
190	73	73	31.67	25.50	249	0.590	1440.3
195	73	73	31.67	25.50	249	0.605	1440.4
200	73	73	31.67	25.50	249	0.620	1440.5
205	73	73	31.67	25.50	249	0.635	1440.6
210	73	73	31.67	25.50	249	0.650	1440.7
215	73	73	31.67	25.50	249	0.665	1440.8
220	73	73	31.67	25.50	249	0.680	1440.9
225	73	73	31.67	25.50	249	0.695	1441.0
230	73	73	31.67	25.50	249	0.710	1441.1
235	73	73	31.67	25.50	249	0.725	1441.2
240	73	73	31.67	25.50	249	0.740	1441.3
245	73	73	31.67	25.50	249	0.755	1441.4
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255	73	73	31.67	25.50	249	0.785	1441.6
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265	73	73	31.67	25.50	249	0.815	1441.8
270	73	73	31.67	25.50	249	0.830	1441.9
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295	73	73	31.67	25.50	249	0.905	1442.4
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315	73	73	31.67	25.50	249	0.965	1442.8
320	73	73	31.67	25.50	249	0.980	1442.9
325	73	73	31.67	25.50	249	0.995	1443.0
330	73	73	31.67	25.50	249	1.010	1443.1
335	73	73	31.67	25.50	249	1.025	1443.2
340	73	73	31.67	25.50	249	1.040	1443.3
345	73	73	31.67	25.50	249	1.055	1443.4
350	73	73	31.67	25.50	249	1.070	1443.5
355	73	73	31.67	25.50	249	1.085	1443.6
360	73	73	31.67	25.50	249	1.100	1443.7
365	73	73	31.67	25.50	249	1.115	1443.8
370	73	73	31.67	25.50	249	1.130	1443.9
375	73	73	31.67	25.50	249	1.145	1444.0
380	73	73	31.67	25.50	249	1.160	1444.1
385	73	73	31.67	25.50	249	1.175	1444.2
390	73	73	31.67	25.50	249	1.190	1444.3
395	73	73	31.67	25.50	249	1.205	1444.4
400	73	73	31.67	25.50	249	1.220	1444.5
405	73	73	31.67	25.50	249	1.235	1444.6
410	73	73	31.67	25.50	249	1.250	1444.7
415	73	73	31.67	25.50	249	1.265	1444.8
420	73	73	31.67	25.50	249	1.280	1444.9
425	73	73	31.67	25.50	249	1.295	1445.0
430	73	73	31.67	25.50	249	1.310	1445.1
435	73	73	31.67	25.50	249	1.325	1445.2
440	73	73	31.67	25.50	249	1.340	1445.3
445	73	73	31.67	25.50	249	1.355	1445.4
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455	73	73	31.67	25.50	249	1.385	1445.6
460	73	73	31.67	25.50	249	1.400	1445.7
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470	73	73	31.67	25.50	249	1.430	1445.9
475	73	73	31.67	25.50	249	1.445	1446.0
480	73	73	31.67	25.50	249	1.460	1446.1
485	73	73	31.67	25.50	249	1.475	1446.2
490	73	73	31.67	25.50	249	1.490	1446.3
495	73	73	31.67	25.50	249	1.505	1446.4
500	73	73	31.67	25.50	249	1.520	1446.5
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540	73	73	31.67	25.50	249	1.640	1447.3
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550	73	73	31.67	25.50	249	1.670	1447.5
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605	73	73	31.67	25.50	249	1.835	1448.6
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615	73	73	31.67	25.50	249	1.865	1448.8
620	73	73	31.67	25.50	249	1.880	1448.9
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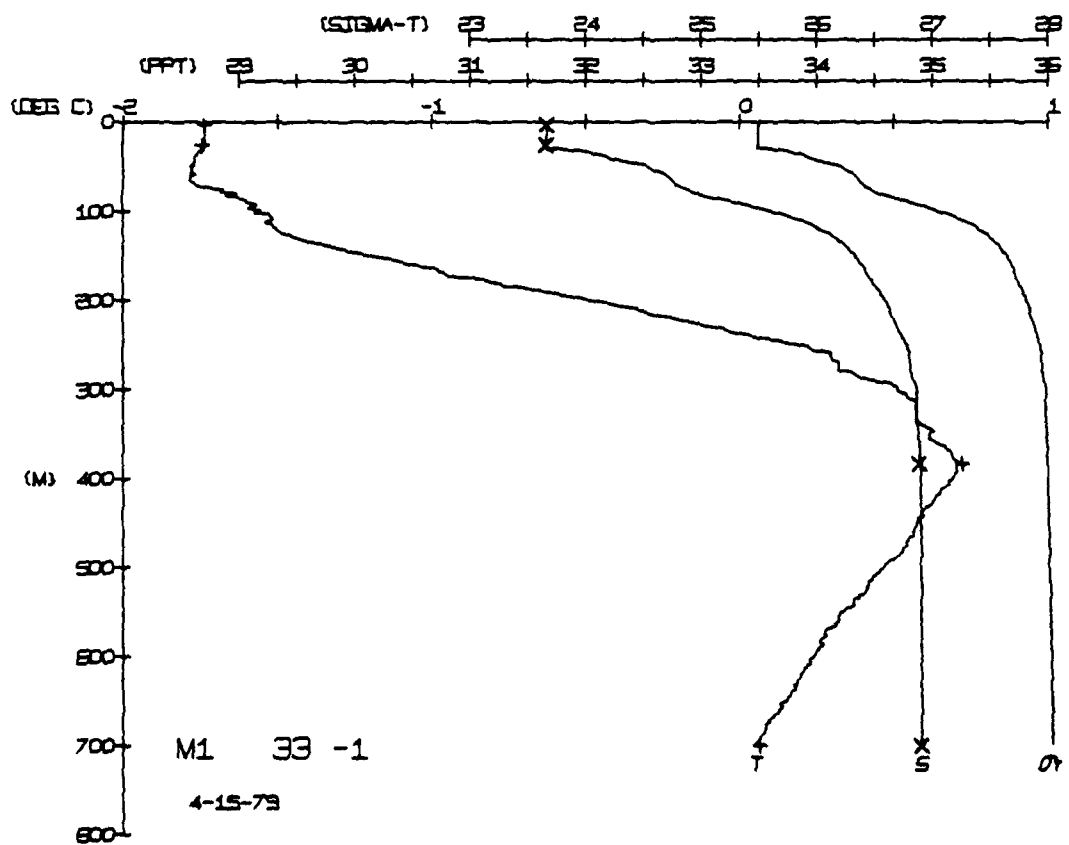
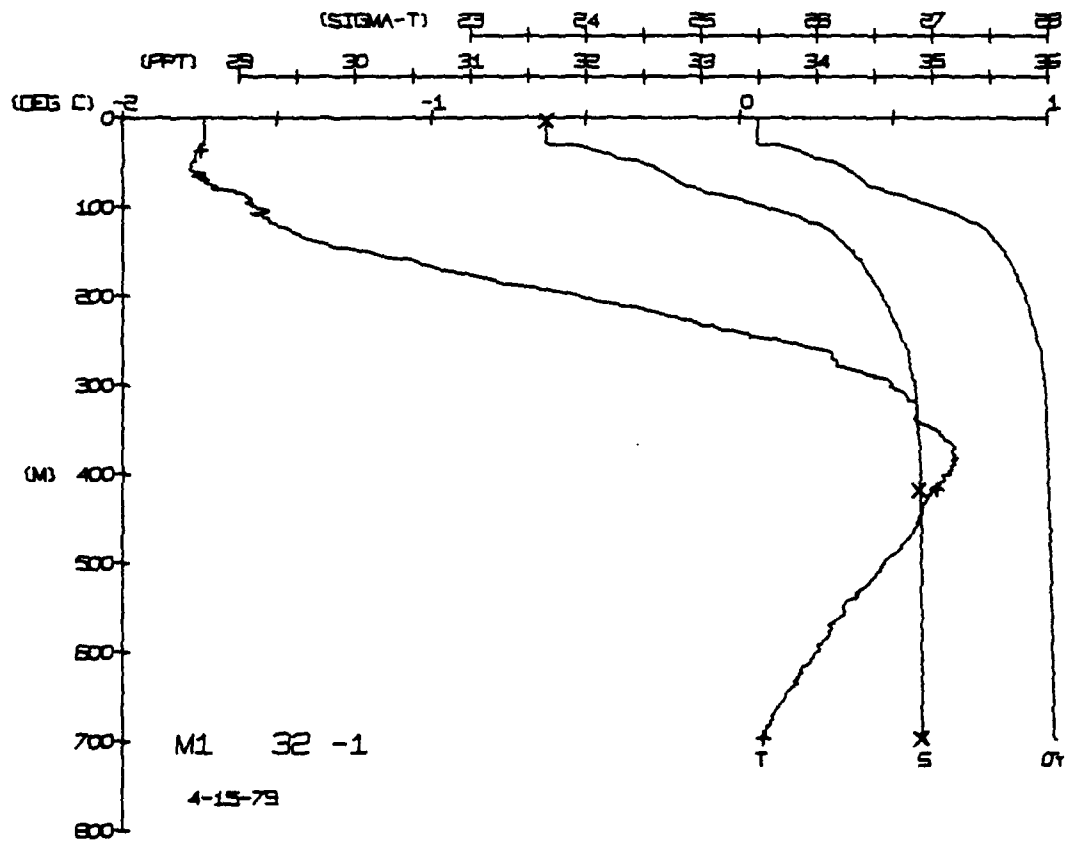
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 38.3
 697.3

TEMP -1.75
 -0.64
 0.08

SALIN 31.65
 34.88
 34.90

FRAM 1 STATION 33(1) CTD 15/APR/1979 1830 GMT CODE = 1
 LAT = 84 5186N LNG = 9 2459W LTER = 0.0 USER = 2.8
 AIR TEMP = -30.8 BAROM = 1041.0 WIND = 98.0 SPEED = 2.8

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYHNT	SOUND
0	74	74	31.67	25.50	249	0.008	1436.4
1	74	74	31.67	25.50	249	0.008	1436.5
3	74	74	31.67	25.50	249	0.013	1436.6
10	74	74	31.67	25.50	249	0.038	1436.7
15	74	74	31.67	25.50	249	0.053	1436.8
20	74	74	31.67	25.50	249	0.075	1436.9
25	74	74	31.67	25.50	249	0.087	1437.0
30	74	74	31.67	25.50	249	0.098	1437.1
35	74	74	31.67	25.50	249	0.108	1437.2
40	74	74	31.67	25.50	249	0.118	1437.3
45	74	74	31.67	25.50	249	0.127	1437.4
50	74	74	31.67	25.50	249	0.136	1437.5
55	74	74	31.67	25.50	249	0.144	1437.6
60	74	74	31.67	25.50	249	0.153	1437.7
65	74	74	31.67	25.50	249	0.168	1437.8
70	74	74	31.67	25.50	249	0.182	1437.9
75	74	74	31.67	25.50	249	0.197	1438.0
80	74	74	31.67	25.50	249	0.208	1438.1
85	74	74	31.67	25.50	249	0.219	1438.2
90	74	74	31.67	25.50	249	0.221	1438.3
100	74	74	31.67	25.50	249	0.217	1442.1
110	74	74	31.67	25.50	249	0.203	1442.2
120	74	74	31.67	25.50	249	0.217	1442.3
130	74	74	31.67	25.50	249	0.223	1442.4
140	74	74	31.67	25.50	249	0.228	1442.5
150	74	74	31.67	25.50	249	0.232	1442.6
160	74	74	31.67	25.50	249	0.236	1442.7
170	74	74	31.67	25.50	249	0.240	1442.8
180	74	74	31.67	25.50	249	0.243	1442.9
190	74	74	31.67	25.50	249	0.246	1443.0
200	74	74	31.67	25.50	249	0.249	1443.1
210	74	74	31.67	25.50	249	0.252	1443.2
220	74	74	31.67	25.50	249	0.254	1443.3
230	74	74	31.67	25.50	249	0.258	1443.4
240	74	74	31.67	25.50	249	0.261	1443.5
250	74	74	31.67	25.50	249	0.263	1443.6
260	74	74	31.67	25.50	249	0.265	1443.7
270	74	74	31.67	25.50	249	0.267	1443.8
280	74	74	31.67	25.50	249	0.269	1443.9
290	74	74	31.67	25.50	249	0.271	1444.0
300	74	74	31.67	25.50	249	0.273	1444.1
310	74	74	31.67	25.50	249	0.275	1444.2
320	74	74	31.67	25.50	249	0.277	1444.3
330	74	74	31.67	25.50	249	0.279	1444.4
340	74	74	31.67	25.50	249	0.281	1444.5
350	74	74	31.67	25.50	249	0.283	1444.6
360	74	74	31.67	25.50	249	0.285	1444.7
370	74	74	31.67	25.50	249	0.287	1444.8
380	74	74	31.67	25.50	249	0.289	1444.9
390	74	74	31.67	25.50	249	0.291	1445.0
400	74	74	31.67	25.50	249	0.293	1445.1
410	74	74	31.67	25.50	249	0.295	1445.2
420	74	74	31.67	25.50	249	0.298	1445.3
430	74	74	31.67	25.50	249	0.301	1445.4
440	74	74	31.67	25.50	249	0.303	1445.5
450	74	74	31.67	25.50	249	0.306	1445.6
460	74	74	31.67	25.50	249	0.309	1445.7
470	74	74	31.67	25.50	249	0.312	1445.8
480	74	74	31.67	25.50	249	0.315	1445.9
490	74	74	31.67	25.50	249	0.318	1446.0
500	74	74	31.67	25.50	249	0.321	1446.1
510	74	74	31.67	25.50	249	0.324	1446.2
520	74	74	31.67	25.50	249	0.327	1446.3
530	74	74	31.67	25.50	249	0.330	1446.4
540	74	74	31.67	25.50	249	0.333	1446.5
550	74	74	31.67	25.50	249	0.336	1446.6
560	74	74	31.67	25.50	249	0.339	1446.7
570	74	74	31.67	25.50	249	0.342	1446.8
580	74	74	31.67	25.50	249	0.345	1446.9
590	74	74	31.67	25.50	249	0.348	1447.0
600	74	74	31.67	25.50	249	0.351	1447.1
610	74	74	31.67	25.50	249	0.354	1447.2
620	74	74	31.67	25.50	249	0.357	1447.3
630	74	74	31.67	25.50	249	0.360	1447.4
640	74	74	31.67	25.50	249	0.363	1447.5
650	74	74	31.67	25.50	249	0.366	1447.6
660	74	74	31.67	25.50	249	0.369	1447.7
670	74	74	31.67	25.50	249	0.372	1447.8
680	74	74	31.67	25.50	249	0.375	1447.9
690	74	74	31.67	25.50	249	0.378	1448.0
700	74	74	31.67	25.50	249	0.381	1448.1
710	74	74	31.67	25.50	249	0.384	1448.2
720	74	74	31.67	25.50	249	0.387	1448.3
730	74	74	31.67	25.50	249	0.390	1448.4
740	74	74	31.67	25.50	249	0.393	1448.5
750	74	74	31.67	25.50	249	0.396	1448.6
760	74	74	31.67	25.50	249	0.399	1448.7
770	74	74	31.67	25.50	249	0.402	1448.8
780	74	74	31.67	25.50	249	0.405	1448.9
790	74	74	31.67	25.50	249	0.408	1449.0
800	74	74	31.67	25.50	249	0.411	1449.1
810	74	74	31.67	25.50	249	0.414	1449.2
820	74	74	31.67	25.50	249	0.417	1449.3
830	74	74	31.67	25.50	249	0.420	1449.4
840	74	74	31.67	25.50	249	0.423	1449.5
850	74	74	31.67	25.50	249	0.426	1449.6
860	74	74	31.67	25.50	249	0.429	1449.7
870	74	74	31.67	25.50	249	0.432	1449.8
880	74	74	31.67	25.50	249	0.435	1449.9
890	74	74	31.67	25.50	249	0.438	1450.0
900	74	74	31.67	25.50	249	0.441	1450.1
910	74	74	31.67	25.50	249	0.444	1450.2
920	74	74	31.67	25.50	249	0.447	1450.3
930	74	74	31.67	25.50	249	0.450	1450.4
940	74	74	31.67	25.50	249	0.453	1450.5
950	74	74	31.67	25.50	249	0.456	1450.6
960	74	74	31.67	25.50	249	0.459	1450.7
970	74	74	31.67	25.50	249	0.462	1450.8
980	74	74	31.67	25.50	249	0.465	1450.9
990	74	74	31.67	25.50	249	0.468	1451.0
1000	74	74	31.67	25.50	249	0.471	1451.1
1010	74	74	31.67	25.50	249	0.474	1451.2
1020	74	74	31.67	25.50	249	0.477	1451.3
1030	74	74	31.67	25.50	249	0.480	1451.4
1040	74	74	31.67	25.50	249	0.483	1451.5
1050	74	74	31.67	25.50	249	0.486	1451.6
1060	74	74	31.67	25.50	249	0.489	1451.7
1070	74	74	31.67	25.50	249	0.492	1451.8
1080	74	74	31.67	25.50	249	0.495	1451.9
1090	74	74	31.67	25.50	249	0.498	1452.0
1100	74	74	31.67	25.50	249	0.501	1452.1
1110	74	74	31.67	25.50	249	0.504	1452.2
1120	74	74	31.67	25.50	249	0.507	1452.3
1130	74	74	31.67	25.50	249	0.510	1452.4
1140	74	74	31.67	25.50	249	0.513	1452.5
1150	74	74	31.67	25.50	249	0.516	1452.6
1160	74	74	31.67	25.50	249	0.519	1452.7
1170	74	74	31.67	25.50	249	0.522	1452.8
1180	74	74	31.67	25.50	249	0.525	1452.9
1190	74	74	31.67	25.50	249	0.528	1453.0
1200	74	74	31.67	25.50	249	0.531	1453.1
1210	74	74	31.67	25.50	249	0.534	1453.2
1220	74	74	31.67	25.50	249	0.537	1453.3
1230	74	74	31.67	25.50	249	0.540	1453.4
1240	74	74	31.67	25.50	249	0.543	1453.5
1250	74	74	31.67	25.50	249	0.546	1453.6
1260	74	74	31.67	25.50	249	0.549	1453.7
1270	74	74	31.67	25.50	249	0.552	1453.8
1280	74	74	31.67	25.50	249	0.555	1453.9
1290	74	74	31.67	25.50	249	0.558	1454.0
1300	74	74	31.67	25.50	249	0.561	1454.1
1310	74	74	31.67	25.50	249	0.564	1454.2
1320	74	74	31.67	25.50	249	0.567	1454.3
1330	74	74	31.67	25.50	249	0.570	1454.4
1340	74	74	31.67	25.50	249	0.573	1454.5
1350	74	74	31.67	25.50	249	0.576	1454.6
1360	74	74	31.67	25.50	249	0.579	1454.7
1370	74	74	31.67	25.50	249	0.582	1454.8
1380	74	74	31.67	25.50	249	0.585	1454.9
1390	74	74	31.67	25.50	249	0.588	1455.0
1400	74	74	31.67	25.50	249	0.591	1455.1
1410	74	74	31.67	25.50	249	0.594	1455.2
1420	74	74	31.67	25.50	249	0.597	1455.3
1430	74	74	31.67	25.50	249	0.600	1455.4
1440	74	74	31.67	25.50	249	0.603	1455.5
1450	74	74	31.67	25.50	249	0.606	1455.6
1460	74	74	31.67	25.50	249	0.609	1455.7
1470	74	74	31.67	25.50	249	0.612	1455.8
1480	74	74	31.67	25.50	249	0.615	1455.9
1490	74	74	31.67	25.50	249	0.618	1456.0
1500	74	74	31.67	25.50	249	0.621	1456.1
1510	74	74	31.67	25.50	249	0.624	1456.2
1520	74	74	31.67	25.50	249	0.627	1456.3
1530	74	74	31.67	25.50	249	0.630	1456.



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FRAM 1 STATION 35(1) CTD 16/APR/1979 1817 GMT CODE = 1
LAT = 84 520IN LNG = 9 3347M LTER = 0 LGR = 0
AIR TEMP = -31.7 BAROM = 1036.8 WIND = 80 0 SPEED = 3.6

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DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYNHT	SOUND	DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYNHT	SOUND
0	74	74	67	50	1	000	434	0	73	73	67	50	1	000	434
1	74	74	67	50	1	000	434	1	73	73	67	50	1	000	434
2	74	74	67	50	1	000	434	2	73	73	67	50	1	000	434
3	74	74	67	50	1	000	434	3	73	73	67	50	1	000	434
4	74	74	67	50	1	000	434	4	73	73	67	50	1	000	434
5	74	74	67	50	1	000	434	5	73	73	67	50	1	000	434
6	74	74	67	50	1	000	434	6	73	73	67	50	1	000	434
7	74	74	67	50	1	000	434	7	73	73	67	50	1	000	434
8	74	74	67	50	1	000	434	8	73	73	67	50	1	000	434
9	74	74	67	50	1	000	434	9	73	73	67	50	1	000	434
10	74	74	67	50	1	000	434	10	73	73	67	50	1	000	434
11	74	74	67	50	1	000	434	11	73	73	67	50	1	000	434
12	74	74	67	50	1	000	434	12	73	73	67	50	1	000	434
13	74	74	67	50	1	000	434	13	73	73	67	50	1	000	434
14	74	74	67	50	1	000	434	14	73	73	67	50	1	000	434
15	74	74	67	50	1	000	434	15	73	73	67	50	1	000	434
16	74	74	67	50	1	000	434	16	73	73	67	50	1	000	434
17	74	74	67	50	1	000	434	17	73	73	67	50	1	000	434
18	74	74	67	50	1	000	434	18	73	73	67	50	1	000	434
19	74	74	67	50	1	000	434	19	73	73	67	50	1	000	434
20	74	74	67	50	1	000	434	20	73	73	67	50	1	000	434
21	74	74	67	50	1	000	434	21	73	73	67	50	1	000	434
22	74	74	67	50	1	000	434	22	73	73	67	50	1	000	434
23	74	74	67	50	1	000	434	23	73	73	67	50	1	000	434
24	74	74	67	50	1	000	434	24	73	73	67	50	1	000	434
25	74	74	67	50	1	000	434	25	73	73	67	50	1	000	434
26	74	74	67	50	1	000	434	26	73	73	67	50	1	000	434
27	74	74	67	50	1	000	434	27	73	73	67	50	1	000	434
28	74	74	67	50	1	000	434	28	73	73	67	50	1	000	434
29	74	74	67	50	1	000	434	29	73	73	67	50	1	000	434
30	74	74	67	50	1	000	434	30	73	73	67	50	1	000	434
31	74	74	67	50	1	000	434	31	73	73	67	50	1	000	434
32	74	74	67	50	1	000	434	32	73	73	67	50	1	000	434
33	74	74	67	50	1	000	434	33	73	73	67	50	1	000	434
34	74	74	67	50	1	000	434	34	73	73	67	50	1	000	434
35	74	74	67	50	1	000	434	35	73	73	67	50	1	000	434
36	74	74	67	50	1	000	434	36	73	73	67	50	1	000	434
37	74	74	67	50	1	000	434	37	73	73	67	50	1	000	434
38	74	74	67	50	1	000	434	38	73	73	67	50	1	000	434
39	74	74	67	50	1	000	434	39	73	73	67	50	1	000	434
40	74	74	67	50	1	000	434	40	73	73	67	50	1	000	434
41	74	74	67	50	1	000	434	41	73	73	67	50	1	000	434
42	74	74	67	50	1	000	434	42	73	73	67	50	1	000	434
43	74	74	67	50	1	000	434	43	73	73	67	50	1	000	434
44	74	74	67	50	1	000	434	44	73	73	67	50	1	000	434
45	74	74	67	50	1	000	434	45	73	73	67	50	1	000	434
46	74	74	67	50	1	000	434	46	73	73	67	50	1	000	434
47	74	74	67	50	1	000	434	47	73	73	67	50	1	000	434
48	74	74	67	50	1	000	434	48	73	73	67	50	1	000	434
49	74	74	67	50	1	000	434	49	73	73	67	50	1	000	434
50	74	74	67	50	1	000	434	50	73	73	67	50	1	000	434
51	74	74	67	50	1	000	434	51	73	73	67	50	1	000	434
52	74	74	67	50	1	000	434	52	73	73	67	50	1	000	434
53	74	74	67	50	1	000	434	53	73	73	67	50	1	000	434
54	74	74	67	50	1	000	434	54	73	73	67	50	1	000	434
55	74	74	67	50	1	000	434	55	73	73	67	50	1	000	434
56	74	74	67	50	1	000	434	56	73	73	67	50	1	000	434
57	74	74	67	50	1	000	434	57	73	73	67	50	1	000	434
58	74	74	67	50	1	000	434	58	73	73	67	50	1	000	434
59	74	74	67	50	1	000	434	59	73	73	67	50	1	000	434
60	74	74	67	50	1	000	434	60	73	73	67	50	1	000	434
61	74	74	67	50	1	000	434	61	73	73	67	50	1	000	434
62	74	74	67	50	1	000	434	62	73	73	67	50	1	000	434
63	74	74	67	50	1	000	434	63	73	73	67	50	1	000	434
64	74	74	67	50	1	000	434	64	73	73	67	50	1	000	434
65	74	74	67	50	1	000	434	65	73	73	67	50	1	000	434
66	74	74	67	50	1	000	434	66	73	73	67	50	1	000	434
67	74	74	67	50	1	000	434	67	73	73	67	50	1	000	434
68	74	74	67	50	1	000	434	68	73	73	67	50	1	000	434
69	74	74	67	50	1	000	434	69	73	73	67	50	1	000	434
70	74	74	67	50	1	000	434	70	73	73	67	50	1	000	434
71	74	74	67	50	1	000	434	71	73	73	67	50	1	000	434

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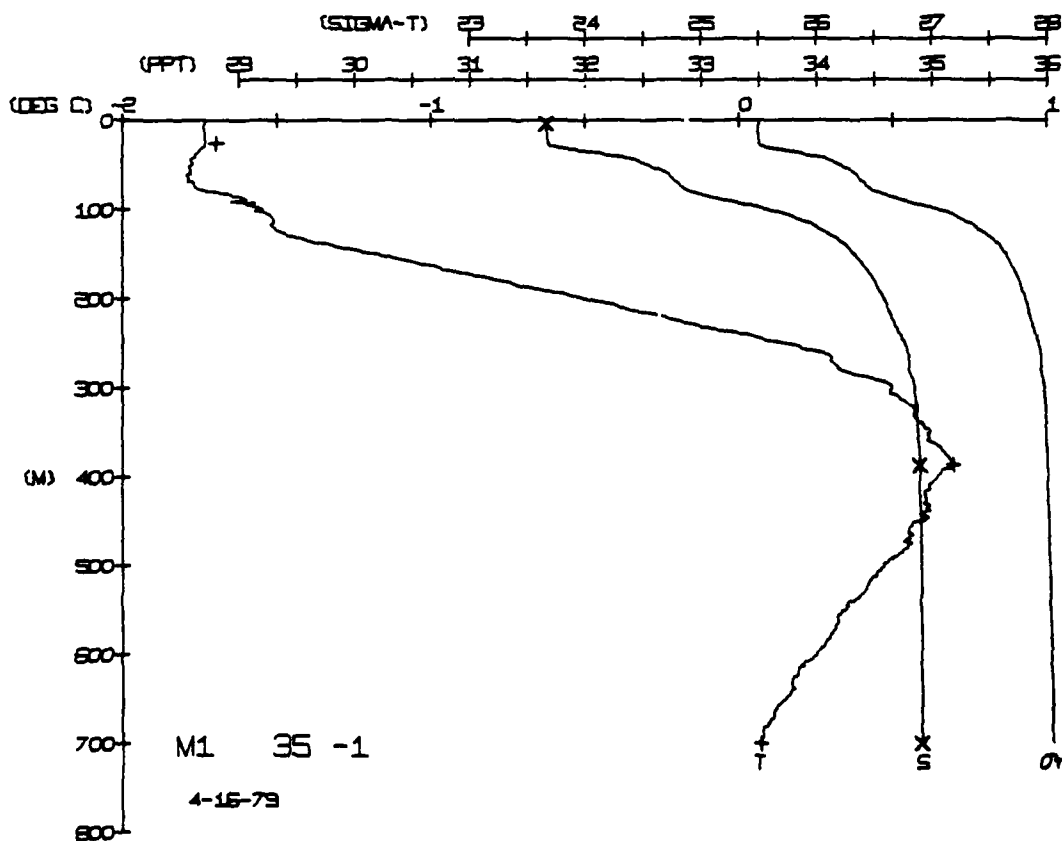
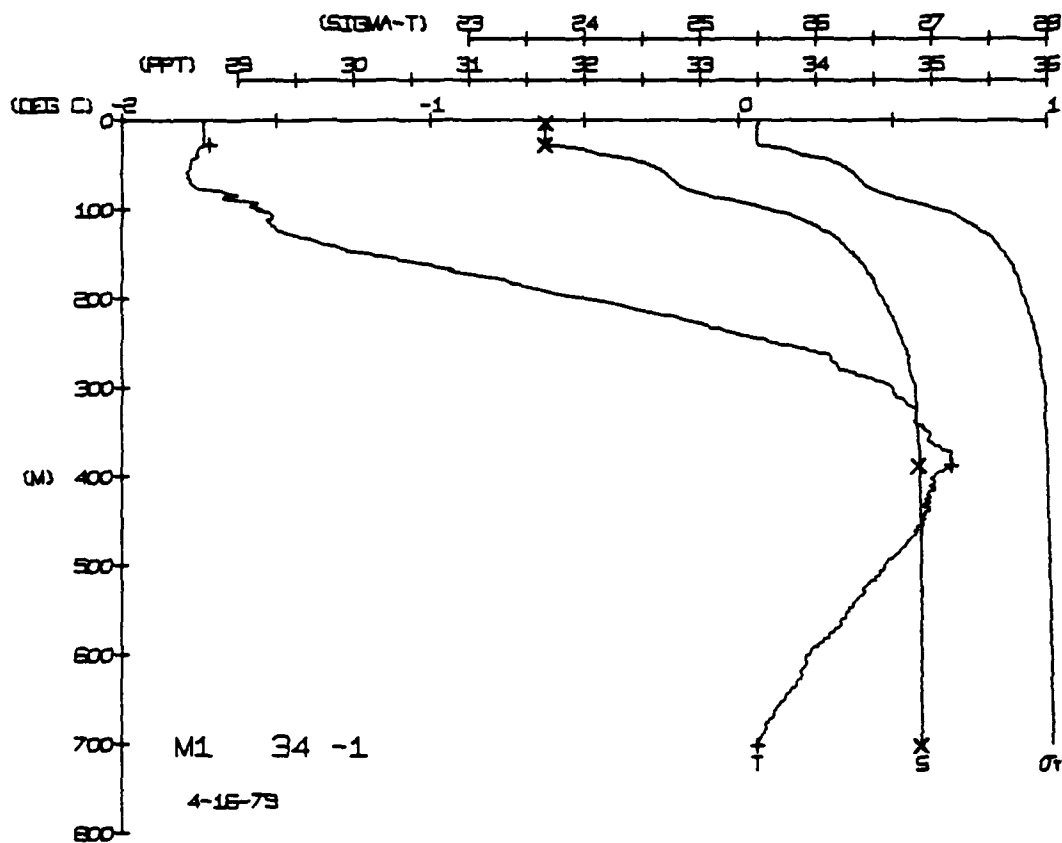
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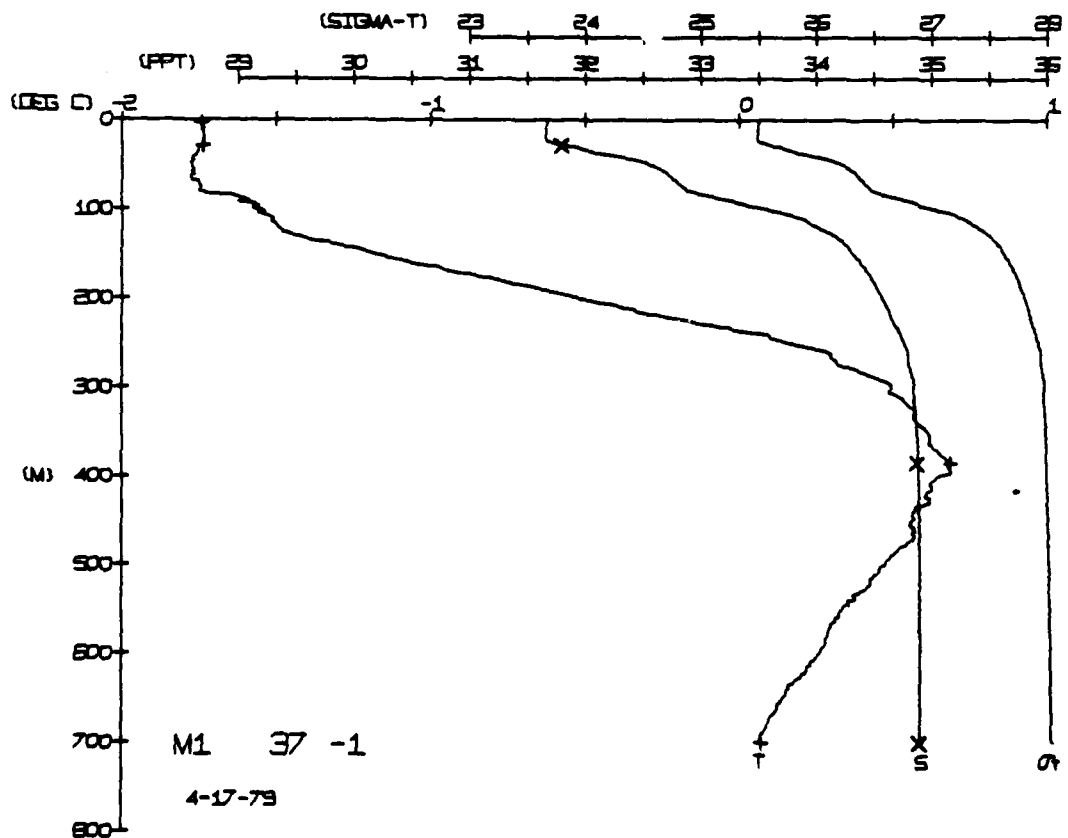
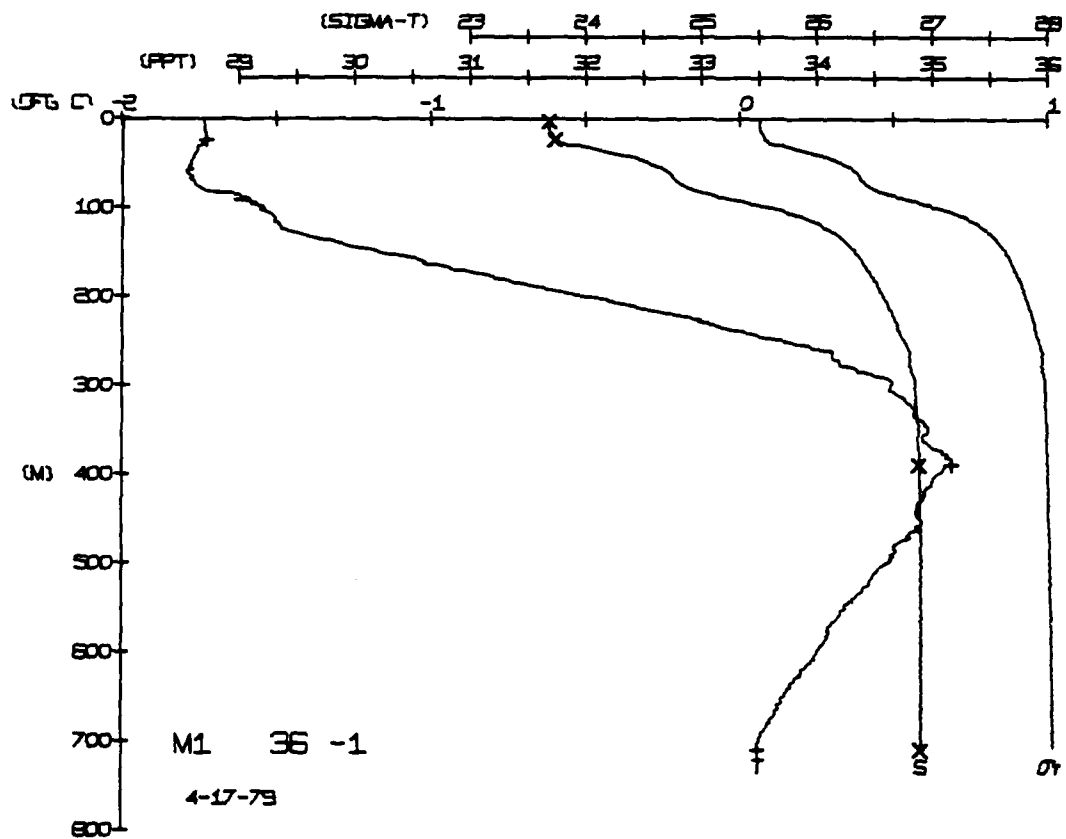
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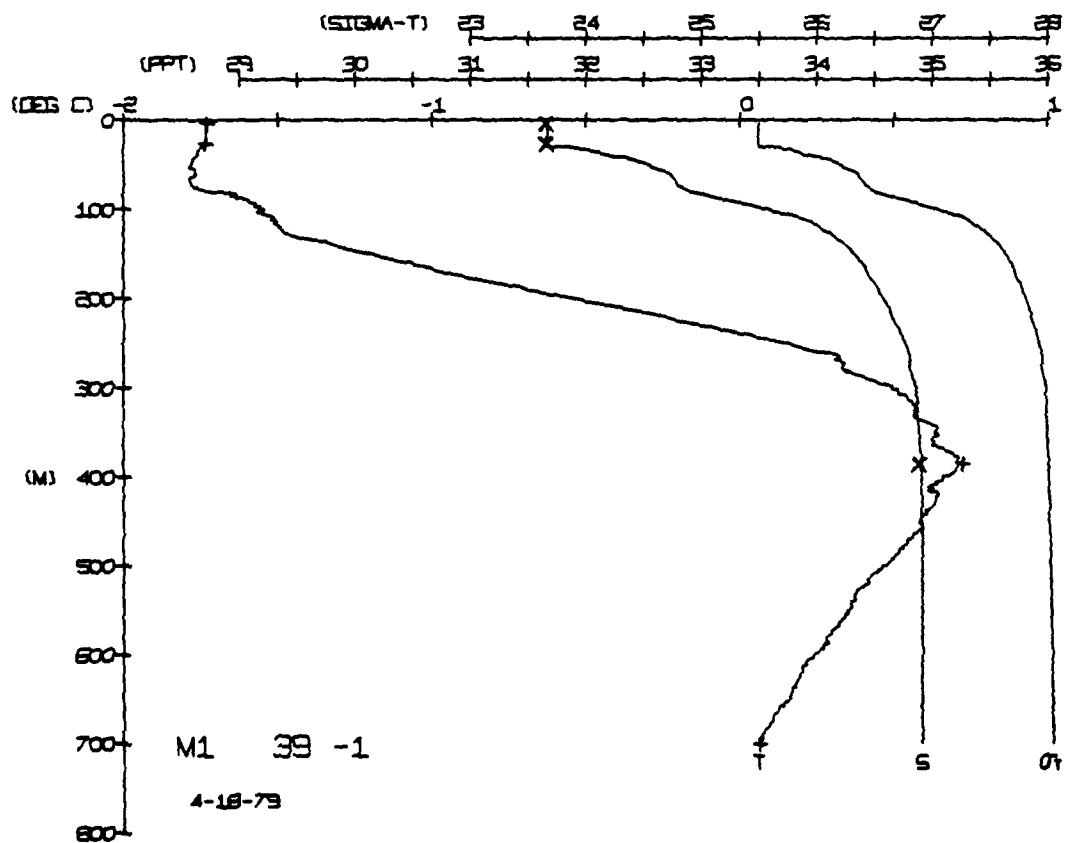
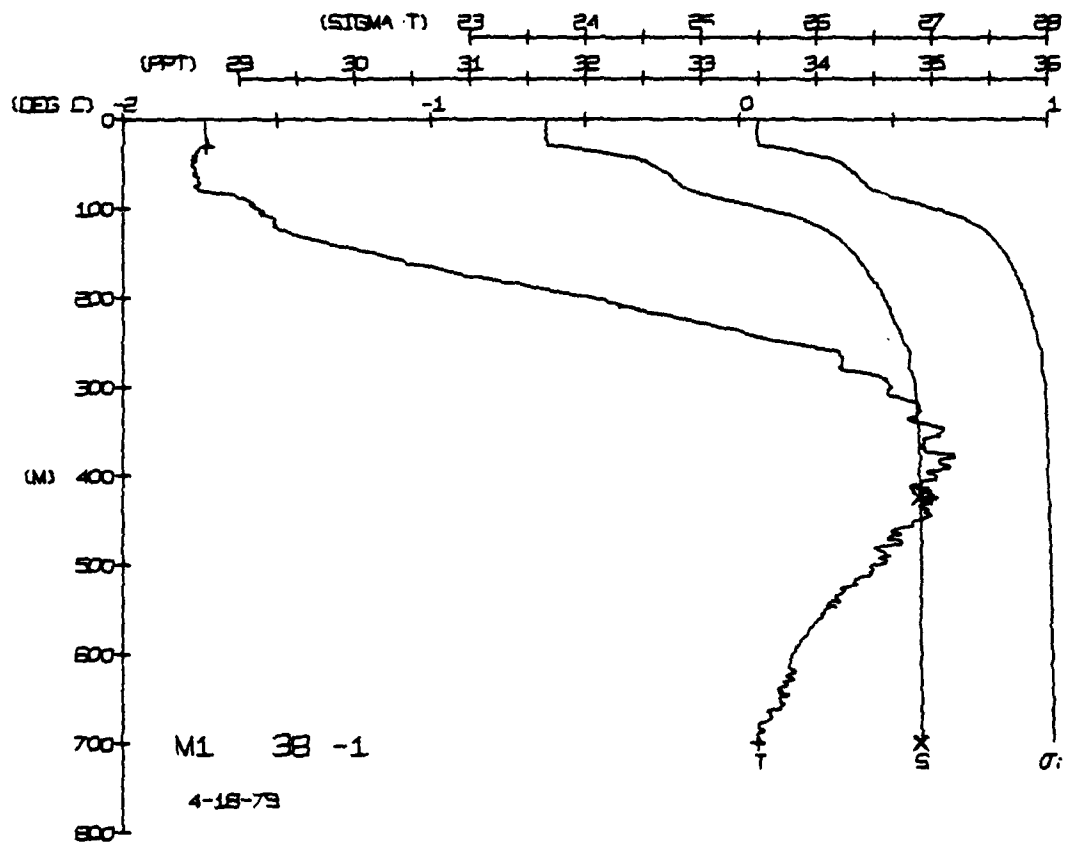
FRAM 1 STATION 37(1) CID 17/APR/1979 1837 GMT CODE = 1
LAT = 84 5183N LNG = 9 6351W LTR = 2 LOER = 5
AIR TEMP = -26.9 BAROM = 1022.8 WIND = 336.0 SPEED = 2.9

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYNHT	SQUAD
0	74	74	31.67	50.00	24.9	0.00	1436
1	74	74	31.67	50.00	24.9	0.00	1436
2	74	74	31.67	50.00	24.9	0.00	1436
3	74	74	31.67	50.00	24.9	0.00	1436
4	76	77	32.54	50.07	24.9	0.00	1437
5	77	77	33.49	50.17	24.9	0.00	1438
6	77	77	33.49	50.17	24.9	0.00	1438
7	77	77	33.49	50.17	24.9	0.00	1438
8	78	78	33.49	50.17	24.9	0.00	1438
9	78	78	33.49	50.17	24.9	0.00	1438
10	75	75	33.49	50.17	24.9	0.00	1439
11	73	74	33.49	50.17	24.9	0.00	1440
12	74	74	33.49	50.17	24.9	0.00	1441
13	75	76	33.49	50.17	24.9	0.00	1442
14	75	76	33.49	50.17	24.9	0.00	1442
15	75	76	33.49	50.17	24.9	0.00	1442
16	75	76	33.49	50.17	24.9	0.00	1442
17	75	76	33.49	50.17	24.9	0.00	1442
18	75	76	33.49	50.17	24.9	0.00	1442
19	75	76	33.49	50.17	24.9	0.00	1442
20	75	76	33.49	50.17	24.9	0.00	1442
21	75	76	33.49	50.17	24.9	0.00	1442
22	75	76	33.49	50.17	24.9	0.00	1442
23	75	76	33.49	50.17	24.9	0.00	1442
24	75	76	33.49	50.17	24.9	0.00	1442
25	75	76	33.49	50.17	24.9	0.00	1442
26	75	76	33.49	50.17	24.9	0.00	1442
27	75	76	33.49	50.17	24.9	0.00	1442
28	75	76	33.49	50.17	24.9	0.00	1442
29	75	76	33.49	50.17	24.9	0.00	1442
30	75	76	33.49	50.17	24.9	0.00	1442
31	75	76	33.49	50.17	24.9	0.00	1442
32	75	76	33.49	50.17	24.9	0.00	1442
33	75	76	33.49	50.17	24.9	0.00	1442
34	75	76	33.49	50.17	24.9	0.00	1442
35	75	76	33.49	50.17	24.9	0.00	1442
36	75	76	33.49	50.17	24.9	0.00	1442
37	75	76	33.49	50.17	24.9	0.00	1442
38	75	76	33.49	50.17	24.9	0.00	1442
39	75	76	33.49	50.17	24.9	0.00	1442
40	75	76	33.49	50.17	24.9	0.00	1442
41	75	76	33.49	50.17	24.9	0.00	1442
42	75	76	33.49	50.17	24.9	0.00	1442
43	75	76	33.49	50.17	24.9	0.00	1442
44	75	76	33.49	50.17	24.9	0.00	1442
45	75	76	33.49	50.17	24.9	0.00	1442
46	75	76	33.49	50.17	24.9	0.00	1442
47	75	76	33.49	50.17	24.9	0.00	1442
48	75	76	33.49	50.17	24.9	0.00	1442
49	75	76	33.49	50.17	24.9	0.00	1442
50	75	76	33.49	50.17	24.9	0.00	1442
51	75	76	33.49	50.17	24.9	0.00	1442
52	75	76	33.49	50.17	24.9	0.00	1442
53	75	76	33.49	50.17	24.9	0.00	1442
54	75	76	33.49	50.17	24.9	0.00	1442
55	75						



FRAM 1 STATION 39(1) CTD 18/APR/1979 1837 GMT CODE = 1
LAT = 84.4941N LNG = 9.6111W LTER = 0. LGR = 1.
AIR TEMP = -26.7 BAROM = 1016.5 WIND = 321.0 SPEED = 3.5

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DWHT	SOUND
0	73	73	31.67	50	249	000	1436
0	73	73	31.67	50	249	000	1436
1	73	73	31.66	49	249	000	1436
1	73	73	31.66	49	249	000	1436
2	74	74	31.67	50	249	000	1436
3	74	74	31.65	50	249	000	1436
3	74	74	31.65	50	249	000	1436
4	76	76	31.65	51	249	000	1436
4	76	76	31.65	51	249	000	1436
5	78	78	31.65	51	249	000	1436
5	78	78	31.65	51	249	000	1436
6	77	77	31.65	51	249	000	1436
6	77	77	31.65	51	249	000	1436
7	78	78	31.65	51	249	000	1436
7	78	78	31.65	51	249	000	1436
8	74	74	31.65	49	249	000	1436
8	74	74	31.65	49	249	000	1436
9	60	60	31.65	49	249	000	1436
9	60	60	31.65	49	249	000	1436
10	55	55	31.65	49	249	000	1436
10	55	55	31.65	49	249	000	1436
11	55	55	31.65	49	249	000	1436
11	55	55	31.65	49	249	000	1436
12	50	50	31.65	49	249	000	1436
12	50	50	31.65	49	249	000	1436
13	44	44	31.65	49	249	000	1436
13	44	44	31.65	49	249	000	1436
14	32	32	31.65	49	249	000	1436
14	32	32	31.65	49	249	000	1436
15	21	21	31.65	49	249	000	1436
15	21	21	31.65	49	249	000	1436
16	07	07	31.65	49	249	000	1436
16	07	07	31.65	49	249	000	1436
17	01	01	31.65	49	249	000	1436
17	01	01	31.65	49	249	000	1436
18	00	00	31.65	49	249	000	1436
18	00	00	31.65	49	249	000	1436
19	00	00	31.65	49	249	000	1436
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20	00	00	31.65	49	249	000	1436
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21	00	00	31.65	49	249	000	1436
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23	00	00	31.65	49	249	000	1436
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37	00	00	31.65	49	249	000	1436
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41	00	00	31.65	49	249	000	1436
41	00	00	31.65	49	249	000	1436
42	00	00	31.65	49	249	000	1436
42	00	00	31.65	49	249	000	1436
43	00	00	31.65	49	249	000	1436
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44	00	00	31.65	49	249	000	1436
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46	00	00	31.65	49	249	000	1436
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74	00	00	31.65	49	249	000	1436
74	00	00	31.65	49	249	000	1436
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91	00	00	31.65	49	249	000	1436
91	00	00	31.65	49	249	000	1436
92	00	00	31.65	49	249	000	1436
92	00						



FRAM 1 STATION 40(1) CTD 19/APR/1979 708 GMT CODE = 1
LAT = 84.472N LNG = 9.3460M LTER = 1.0 LGER = 1.5
AIR TEMP = -26.7 BAROM = 1018.6 WIND = 321.0 SPEED = 3.5

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYNHT	SOUND
0	73	73	331	50	248	000	1436
0.1	73	73	331	50	248	000	1436
1	73	73	331	50	248	000	1436
2	73	73	331	50	248	000	1436
3	73	73	331	50	248	000	1436
4	73	73	331	50	248	000	1436
5	73	73	331	50	248	000	1436
6	73	73	331	50	248	000	1436
7	73	73	331	50	248	000	1436
8	73	73	331	50	248	000	1436
9	73	73	331	50	248	000	1436
10	73	73	331	50	248	000	1436
11	73	73	331	50	248	000	1436
12	73	73	331	50	248	000	1436
13	73	73	331	50	248	000	1436
14	73	73	331	50	248	000	1436
15	73	73	331	50	248	000	1436
16	73	73	331	50	248	000	1436
17	73	73	331	50	248	000	1436
18	73	73	331	50	248	000	1436
19	73	73	331	50	248	000	1436
20	73	73	331	50	248	000	1436
21	73	73	331	50	248	000	1436
22	73	73	331	50	248	000	1436
23	73	73	331	50	248	000	1436
24	73	73	331	50	248	000	1436
25	73	73	331	50	248	000	1436
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27	73	73	331	50	248	000	1436
28	73	73	331	50	248	000	1436
29	73	73	331	50	248	000	1436
30	73	73	331	50	248	000	1436
31	73	73	331	50	248	000	1436
32	73	73	331	50	248	000	1436
33	73	73	331	50	248	000	1436
34	73	73	331	50	248	000	1436
35	73	73	331	50	248	000	1436
36	73	73	331	50	248	000	1436
37	73	73	331	50	248	000	1436
38	73	73	331	50	248	000	1436
39	73	73	331	50	248	000	1436
40	73	73	331	50	248	000	1436
41	73	73	331	50	248	000	1436
42	73	73	331	50	248	000	1436
43	73	73	331	50	248	000	1436
44	73	73	331	50	248	000	1436
45	73	73	331	50	248	000	1436
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47	73	73	331	50	248	000	1436
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70	73	73	331	50	248	000	1436
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72	73	73	331	50	248	000	1436
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75	73	73	331	50	248	000	1436
76	73	73	331	50	248	000	1436
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90	73	73	331	50	248	000	1436
91	73	73	331	50	248	000	1436
92	73	73	331	50	248	000	1436
93	73	73	331	50	248	000	1436
94	73	73	331	50	248	000	1436
95	73	73	331	50	248	000	1436
96	73	73	331	50	248	000	1436
97	73	73	331	50	248	000	1436
98	73	73	331	50	248	000	1436
99	73	73	331	50	248	000	1436
100	73	73	331	50	248	000	1436

BOT NUM = 1
BOT NUM = 2
BOT NUM = 3
BOT NUM = 4

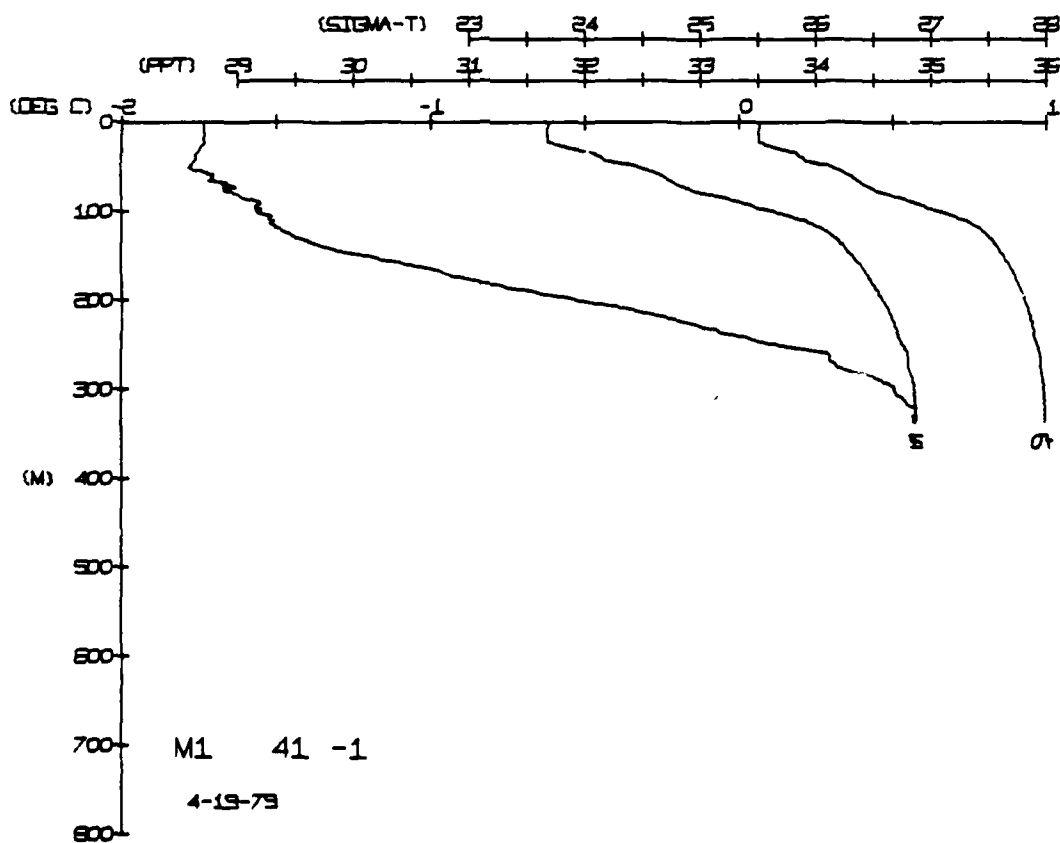
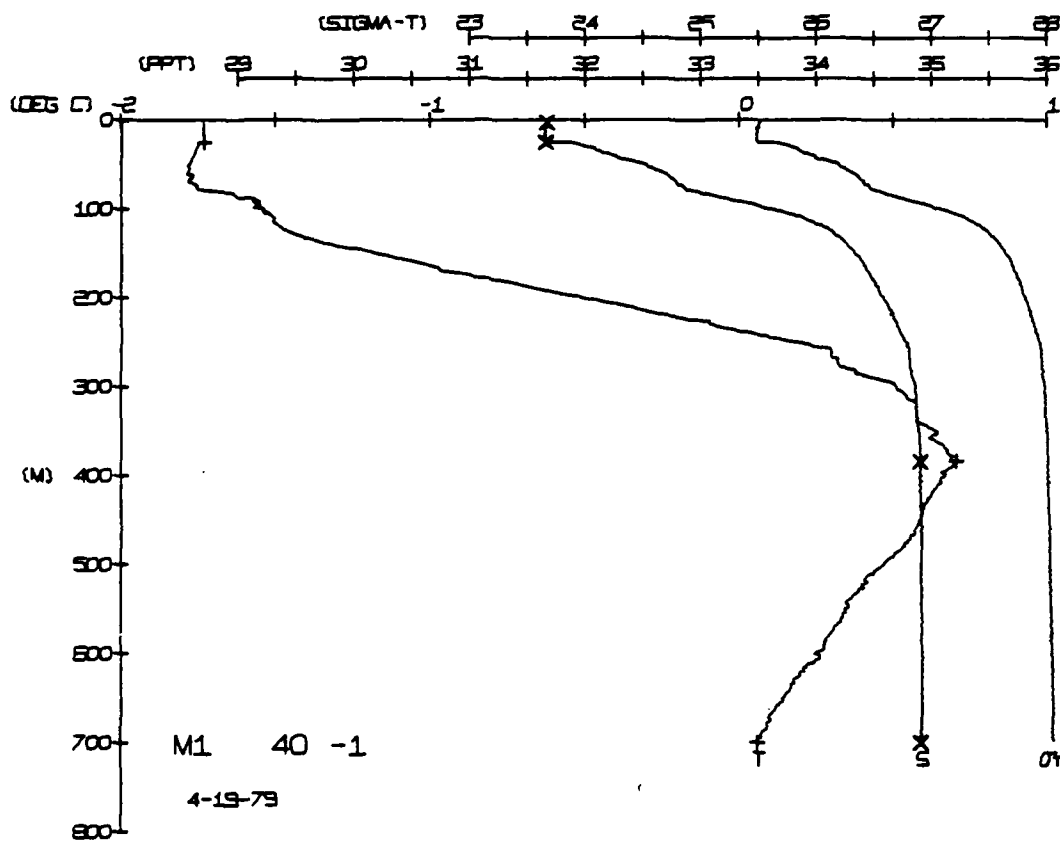
DEPTH 3.4
385.1
700.2

TEMP -1.74
0.70
0.06

SALIN 31.66
34.90
34.91

FRAM 1 STATION 41(1) CTD 19/APR/1979 1901 GMT CODE = 1
LAT = 84.4450N LNG = 9.3125M LTER = 0.0 LGER = 5.7
AIR TEMP = -26.4 BAROM = 1019.5 WIND = 294.0 SPEED = 5.7

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYNHT	SOUND
0	74	74	31.68	51.11	248.48	000.2	1436.4
0.1	74	74	31.68	51.11	248.48	000.2	1436.4
1	74	74	31.68	51.11	248.48	000.2	1436.4
2	74	74	31.68	51.11	248.48	000.2	1436.4
3	74	74	31.68	51.11	248.48	000.2	1436.4
4	74	74	31.68	51.11	248.48	000.2	1436.4
5	74	74	31.68	51.11	248.48	000.2	1436.4
6	74	74	31.68	51.11	248.48	000.2	1436.4
7	74	74	31.68	51.11	248.48	000.2	1436.4
8	74	74	31.68	51.11	248.48	000.2	1436.4
9	74	74	31.68	51.11	248.48	000.2	1436.4
10	74	74	31.68	51.11	248.48	000.2	1436.4
11	74	74	31.68	51.11	248.48	000.2	1436.4
12	74	74	31.68	51.11	248.48	000.2	1436.4
13	74	74	31.68	51.11	248.48	000.2	1436.4
14	74	74	31.68	51.11	248.48	000.2	1436.4
15	74	74	31.68	51.11	248.48	000.2	1436.4
16	74	74	31.68	51.11	248.48	000.2	1436.4
17	74	74	31.68	51.11	248.48	000.2	1436.4
18	74	74	31.68	51.11	248.48	000.2	1436.4
19	74	74	31.68	51.11	248.48	000.2	1436.4
20	74	74	31.68	51.11	248.48	000.2	1436.4
21	74	74	31.68	51.11	248.48	000.2	1436.4
22	74	74	31.68	51.11	248.48	000.2	1436.4
23	74	74	31.68	51.11	248.48	000.2	1436.4
24	74	74	31.68	51.11	248.48	000.2	1436.4
25	74	74	31.68	51.11	248.48	000.2	1436.4
26	74	74	31.68	51.11	248.48	000.2	1436.4
27	74	74	31.68	51.11	248.48	000.2	1436.4
28	74	74	31.68	51.11	248.48	000.2	1436.4
29	74	74	31.68	51.11	248.48	000.2	1436.4
30	74	74	31.68	51.11	248.48	000.2	1436.4
31	74	74	31.68	51.11	248.48	000.2	1436.4
32	74	74	31.68	51.11	248.48	000.2	1436.4
33	74	74	31.68	51.11	248.48	000.2	1436.4
34	74	74	31.68	51.11	248.48	000.2	1436.4
35	74	74	31.68	51.11	248.48	000.2	1436.4
36	74	74	31.68	51.11	248.48	000.2	1436.4
37	74	74	31.68	51.11	248.48	000.2	1436.4
38	74	74	31.68	51.11	248.48	000.2	1436.4
39	74	74	31.68	51.11	248.48	000.2	1436.4
40	74	74	31.68	51.11	248.48	000.2	1436.4
41	74	74	31.68	51.11	248.48	000.2	1436.4
42	74	74	31.68	51.11	248.48	000.2	1436.4
43	74	74	31.68	51.11	248.48	000.2	1436.4
44	74	74	31.68	51.11	248.48	000.2	1436.4
45	74	74	31.68	51.11	248.48	000.2	1436.4
46	74	74	31.68	51.11	248.48	000.2	1436.4
47	74	74	31.68	51.11	248.48	000.2	1436.4
48	74	74	31.68	51.11	248.48	000.2	1436.4
49	74	74	31.68	51.11	248.48	000.2	1436.4
50	74	74	31.68	51.11	248.48	000.2	1436.4
51	74	74	31.68	51.11	248.48	000.2	1436.4
52	74	74	31.68	51.11	248.48	000.2	1436.4
53	74	74	31.68	51.11	248.48	000.2	1436.4
54	74	74	31.68	51.11	248.48	000.2	1436.4
55	74	74	31.68	51.11	248.48	000.2	1436.4
56	74	74	31.68	51.11	248.48	000.2	1436.4
57	74	74	31.68	51.11	248.48	000.2	1436.4
58	74	74	31.68	51.11	248.48	000.2	1436.4
59	74	74	31.68	51.11	248.48	000.2	1436.4
60	74	74	31.68	51.11	248.48	000.2	1436.4
61	74	74	31.68	51.11	248.48	000.2	1436.4
62	74	74	31.68	51.11	248.48	000.2	1436.4
63	74	74	31.68	51.11	248.48	000.2	1436.4
64	74	74	31.68	51.11	248.48	000.2	1436.4
65	74	74	31.68	51.11	248.48	000.2	1436.4
66	74	74	31.68	51.11	248.48	000.2	1436.4
67	74	74	31.68	51.11	248.48	000.2	1436.4
68	74	74	31.68	51.11	248.48	000.2	1436.4
69	74	74	31.68	51.11	248.48	000.2	1436.4
70	74	74	31.68	51.11	248.48	000.2	1436.4
71	74	74	31.68	51.11	248.48	000.2	1436.4
72	74	74	31.68	51.11	248.48	000.2	1436.4
73	74	74	31.68	51.11	248.48	000.2	1436.4
74	74	74	31.68	51.11	248.48	000.2	1436.4
75	74	74	31.68	51.11	248.48	000.2	1436.4



FRAM 1 STATION 42(1) CTD 19/APR/1979 2214 GMT CODE = 1
LAT = 84 430N LNG = 9 2314W LTER = 23. LGER = 48
AIR TEMP = -26.4 BAROM = 1019.4 WIND = 294.0 SPEED = 5.7

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYHNT	SOUND
0	73	73	31	25	248	0	1436
1	73	73	31	25	248	0	1436
2	73	73	31	25	248	0	1436
3	73	73	31	25	248	0	1436
4	73	73	31	25	248	0	1436
5	73	73	31	25	248	0	1436
6	73	73	31	25	248	0	1436
7	73	73	31	25	248	0	1436
8	73	73	31	25	248	0	1436
9	73	73	31	25	248	0	1436
10	73	73	31	25	248	0	1436
11	73	73	31	25	248	0	1436
12	73	73	31	25	248	0	1436
13	73	73	31	25	248	0	1436
14	73	73	31	25	248	0	1436
15	73	73	31	25	248	0	1436
16	73	73	31	25	248	0	1436
17	73	73	31	25	248	0	1436
18	73	73	31	25	248	0	1436
19	73	73	31	25	248	0	1436
20	73	73	31	25	248	0	1436
21	73	73	31	25	248	0	1436
22	73	73	31	25	248	0	1436
23	73	73	31	25	248	0	1436
24	73	73	31	25	248	0	1436
25	73	73	31	25	248	0	1436
26	73	73	31	25	248	0	1436
27	73	73	31	25	248	0	1436
28	73	73	31	25	248	0	1436
29	73	73	31	25	248	0	1436
30	73	73	31	25	248	0	1436
31	73	73	31	25	248	0	1436
32	73	73	31	25	248	0	1436
33	73	73	31	25	248	0	1436
34	73	73	31	25	248	0	1436
35	73	73	31	25	248	0	1436
36	73	73	31	25	248	0	1436
37	73	73	31	25	248	0	1436
38	73	73	31	25	248	0	1436
39	73	73	31	25	248	0	1436
40	73	73	31	25	248	0	1436
41	73	73	31	25	248	0	1436
42	73	73	31	25	248	0	1436
43	73	73	31	25	248	0	1436
44	73	73	31	25	248	0	1436
45	73	73	31	25	248	0	1436
46	73	73	31	25	248	0	1436
47	73	73	31	25	248	0	1436
48	73	73	31	25	248	0	1436
49	73	73	31	25	248	0	1436
50	73	73	31	25	248	0	1436
51	73	73	31	25	248	0	1436
52	73	73	31	25	248	0	1436
53	73	73	31	25	248	0	1436
54	73	73	31	25	248	0	1436
55	73	73	31	25	248	0	1436
56	73	73	31	25	248	0	1436
57	73	73	31	25	248	0	1436
58	73	73	31	25	248	0	1436
59	73	73	31	25	248	0	1436
60	73	73	31	25	248	0	1436
61	73	73	31	25	248	0	1436
62	73	73	31	25	248	0	1436
63	73	73	31	25	248	0	1436
64	73	73	31	25	248	0	1436
65	73	73	31	25	248	0	1436
66	73	73	31	25	248	0	1436
67	73	73	31	25	248	0	1436
68	73	73	31	25	248	0	1436
69	73	73	31	25	248	0	1436
70	73	73	31	25	248	0	1436

BOT NUM = 1
BOT NUM = 2
BOT NUM = 3
BOT NUM = 4

DEPTH 3 6
23 6
385 6
699 1

TEMP -1.74
0.70
0.07

SALIN 31.67
31.71
34.68
34.91

FRAM 1 STATION 43(1) CTD 20/APR/1979 647 GMT CODE = 1
LAT = 84 423N LNG = 9 1207W LTER = 12. LGER = 37
AIR TEMP = -27.3 BAROM = 1018.1 WIND = 299.0 SPEED = 5.6

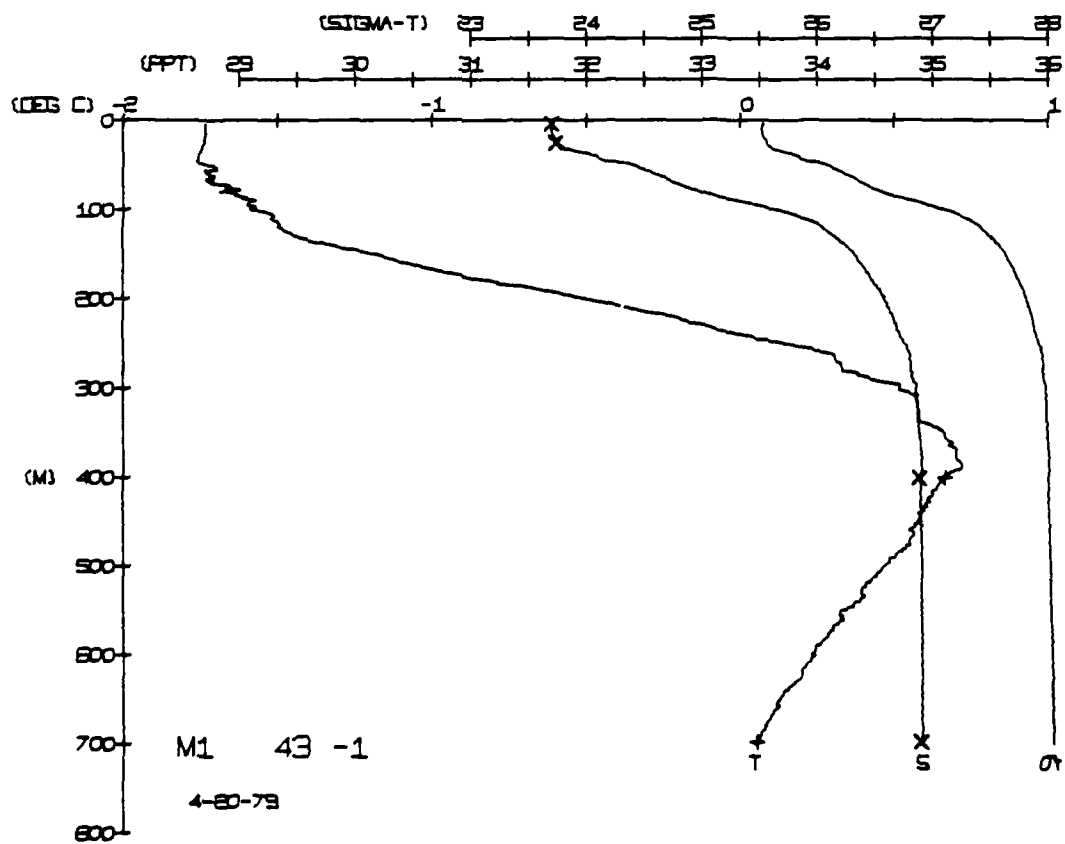
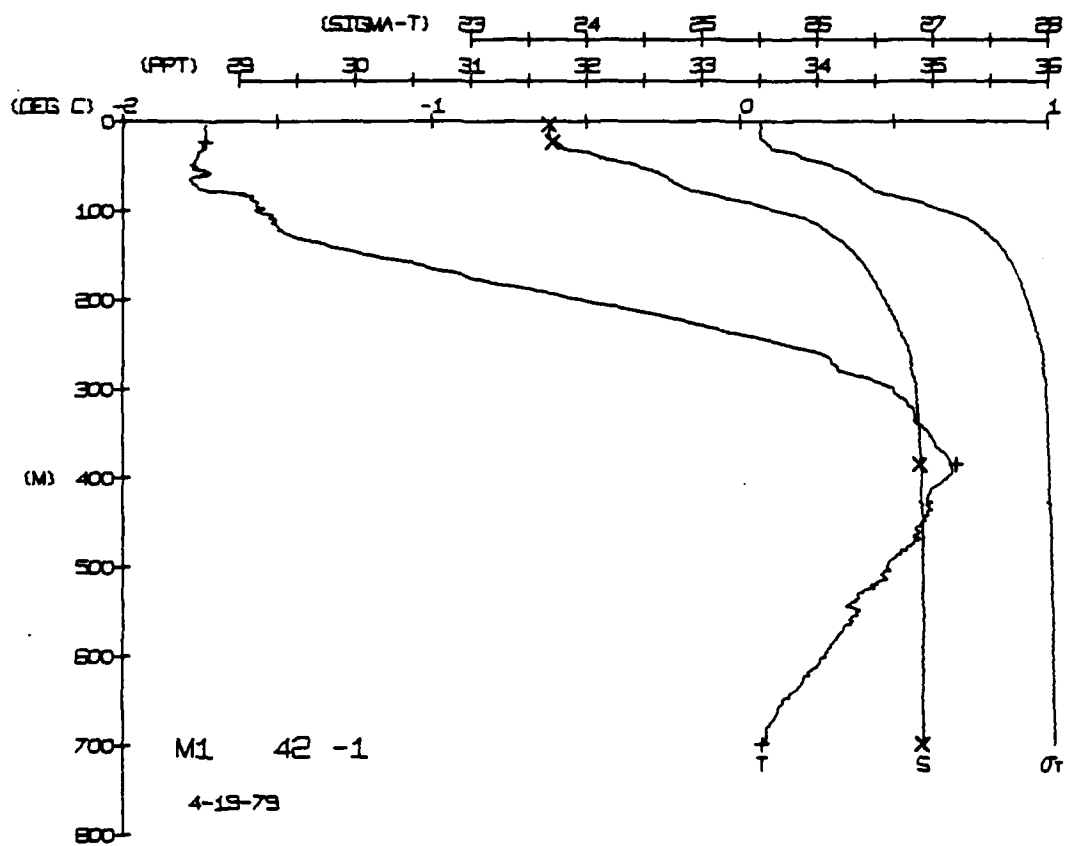
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYHNT	SOUND
0	73	73	31	25	246	0	1436
1	73	73	31	25	246	0	1436
2	73	73	31	25	246	0	1436
3	73	73	31	25	246	0	1436
4	73	73	31	25	246	0	1436
5	73	73	31	25	246	0	1436
6	73	73	31	25	246	0	1436
7	73	73	31	25	246	0	1436
8	73	73	31	25	246	0	1436
9	73	73	31	25	246	0	1436
10	73	73	31	25	246	0	1436
11	73	73	31	25	246	0	1436
12	73	73	31	25	246	0	1436
13	73	73	31	25	246	0	1436
14	73	73	31	25	246	0	1436
15	73	73	31	25	246	0	1436
16	73	73	31	25	246	0	1436
17	73	73	31	25	246	0	1436
18	73	73	31	25	246	0	1436
19	73	73	31	25	246	0	1436
20	73	73	31	25	246	0	1436
21	73	73	31	25	246	0	1436
22	73	73	31	25	246	0	1436
23	73	73	31	25	246	0	1436
24	73	73	31	25	246	0	1436
25	73	73	31	25	246	0	1436
26	73	73	31	25	246	0	1436
27	73	73	31	25	246	0	1436
28	73	73	31	25	246	0	1436
29	73	73	31	25	246	0	1436
30	73	73	31	25	246	0	1436
31	73	73	31	25	246	0	1436
32	73	73	31	25	246	0	1436
33	73	73	31	25	246	0	1436
34	73	73	31	25	246	0	1436
35	73	73	31	25	246	0	1436
36	73	73	31	25	246	0	1436
37	73	73	31	25	246	0	1436
38	73	73	31	25	246	0	1436
39	73	73	31	25	246	0	1436
40	73	73	31	25	246	0	1436
41	73	73	31	25	246	0	1436
42	73	73	31	25	246	0	1436
43	73	73	31	25	246	0	1436
44	73	73	31	25	246	0	1436
45	73	73	31	25	246	0	1436
46	73	73	31	25	246	0	1436
47	73	73	31	25	246	0	1436
48	73	73	31	25	246	0	1436
49	73	73	31	25	246	0	1436
50	73	73	31	25	246	0	1436
51	73	73	31	25	246	0	1436
52	73	73	31	25	246	0	1436
53	73	73	31	25	246	0	1436
54	73	73	31	25	246	0	1436
55	73	73	31	25	246	0	1436
56	73	73	31	25	246	0	1436
57	73	73	31	25	246	0	1436
58	73	73	31	25	246	0	1436
59	73	73	31	25	246	0	1436
60	73	73	31	25	246	0	1436
61	73	73	31	25	246	0	1436
62	73	73	31	25	246	0	1436
63	73	73	31	25	246	0	1436
64	73	73	31	25	246	0	1436
65	73	73	31	25	246	0	1436
66	73	73	31	25	246	0	1436
67	73	73	31	25	246	0	1436
68	73	73	31	25	246	0	1436
69	73	73	31	25	246	0	1436
70	73	73	31	25	246	0	1436

BOT NUM = 1
BOT NUM = 2
BOT NUM = 3
BOT NUM = 4

DEPTH 3 6
25 3
401 2
698 0

TEMP 0.67
0.05

SALIN 31.69
31.73
34.68
34.90



FRAM 1 STATION 45(1) CTD 21/APR/1979 705 GMT CODE = 1
LAT = 84 3660N LNG = 8 6588W LTER = 0 LGR = 1
AIR TEMP = -27 0 BAROM = 1015 9 WIND = 295 0 SPEED = 6 0

[illegible]

AD-A134 244

PHYSICAL OCEANOGRAPHY REPORT STD DATA FROM DRIFTING ICE
STATION FRAM 1(U) LAMONT-DOHERTY GEOLOGICAL OBSERVATORY
PALISADES NY T O MANLEY ET AL. SEP 83 LDGO-83-2

1/2

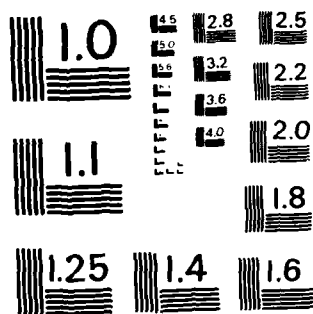
UNCLASSIFIED

N00014-76-C-0004

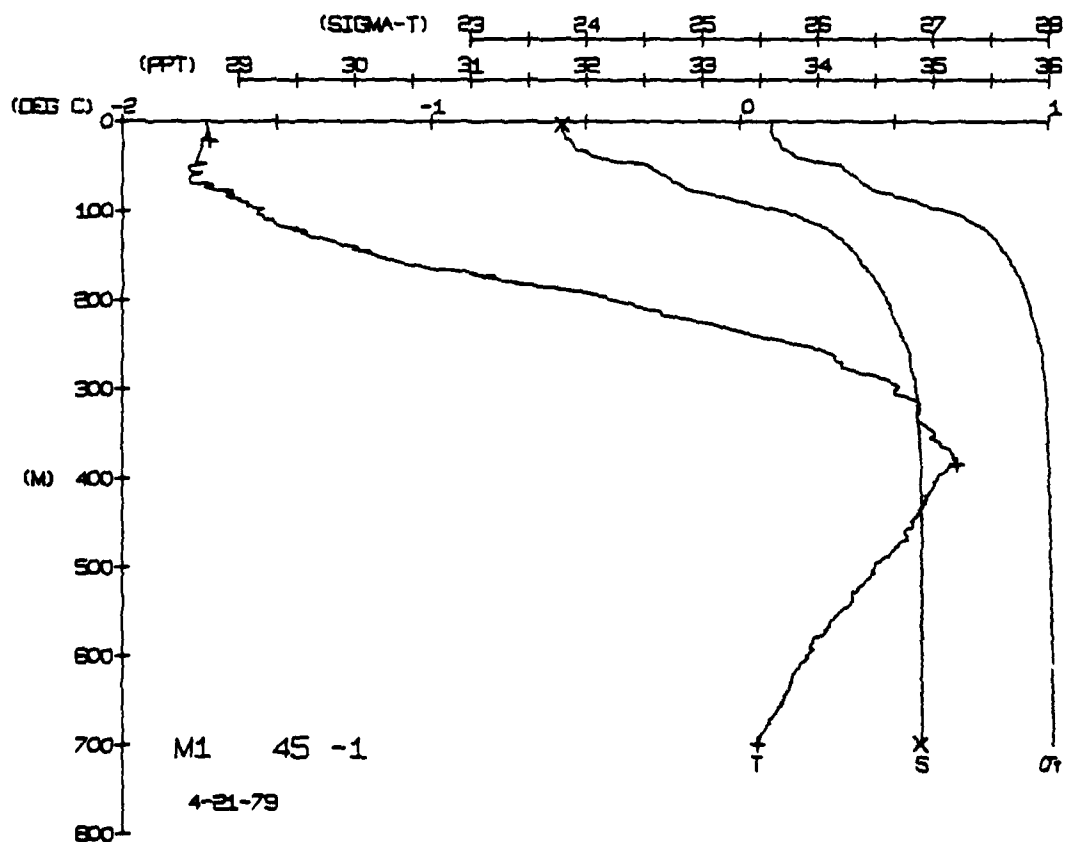
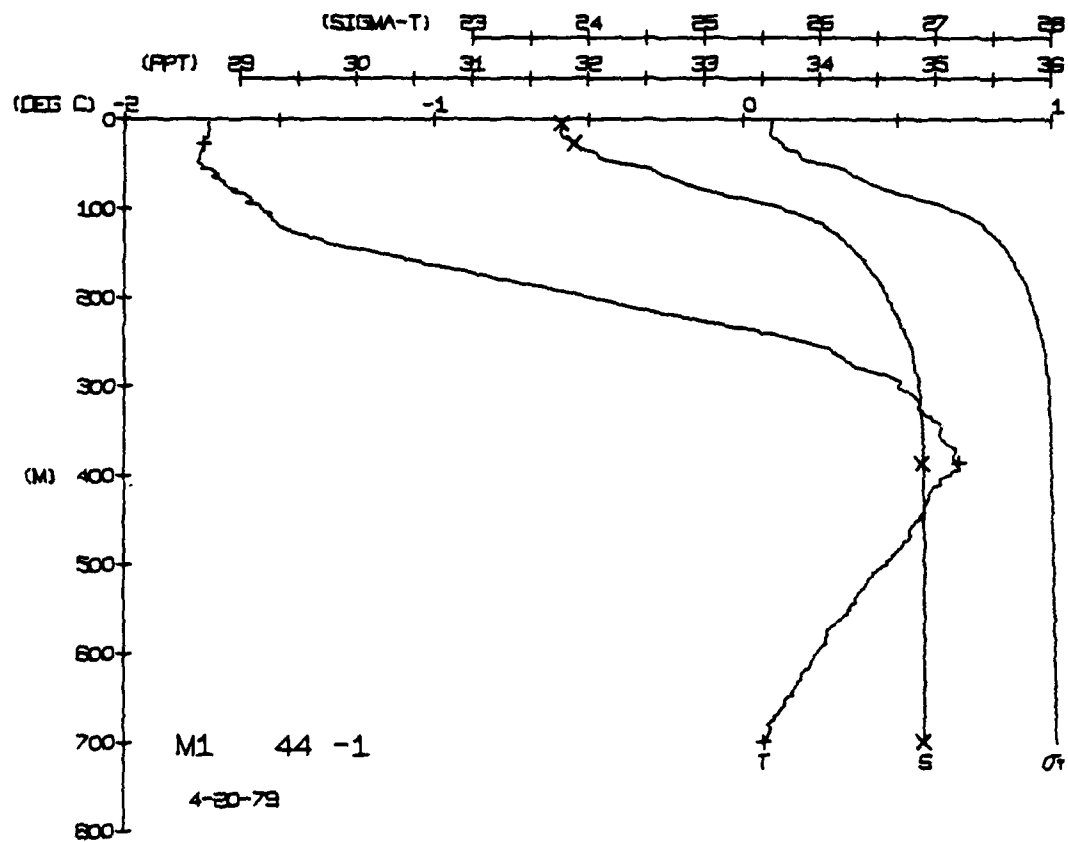
F/G 8/10

NL

								END						
								DATE						
								FILED						
								DTIC						



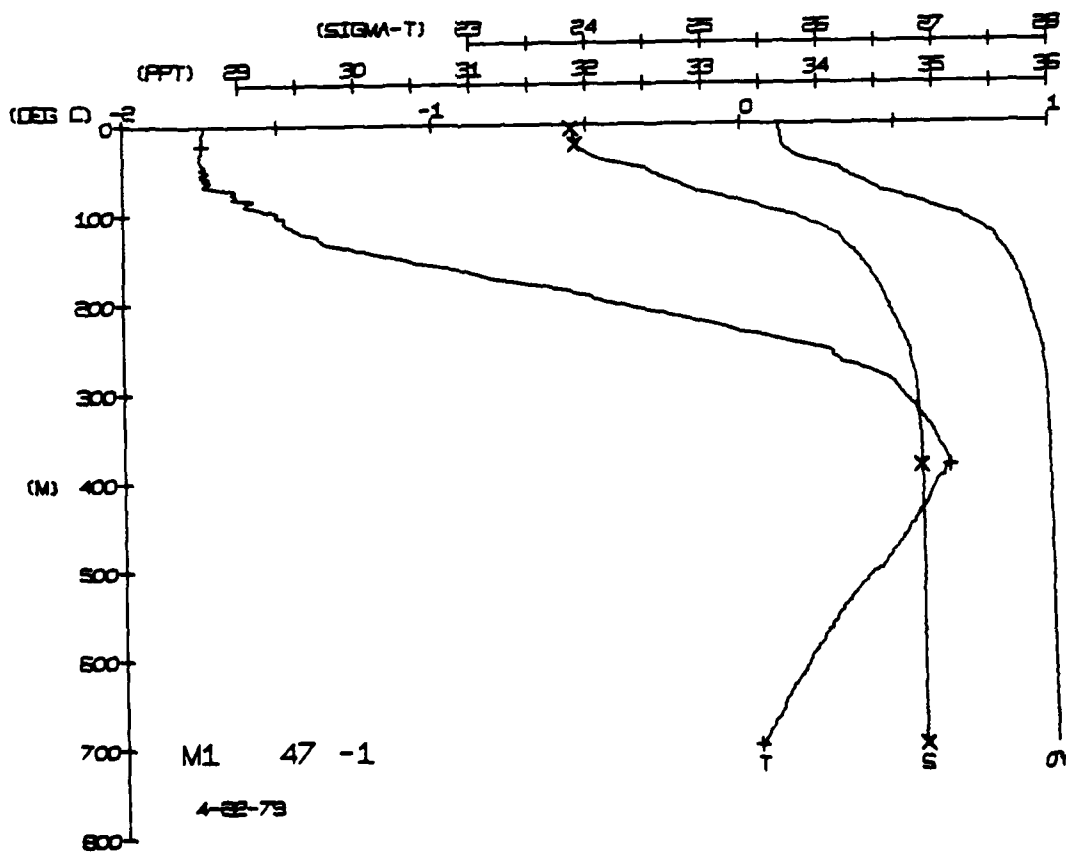
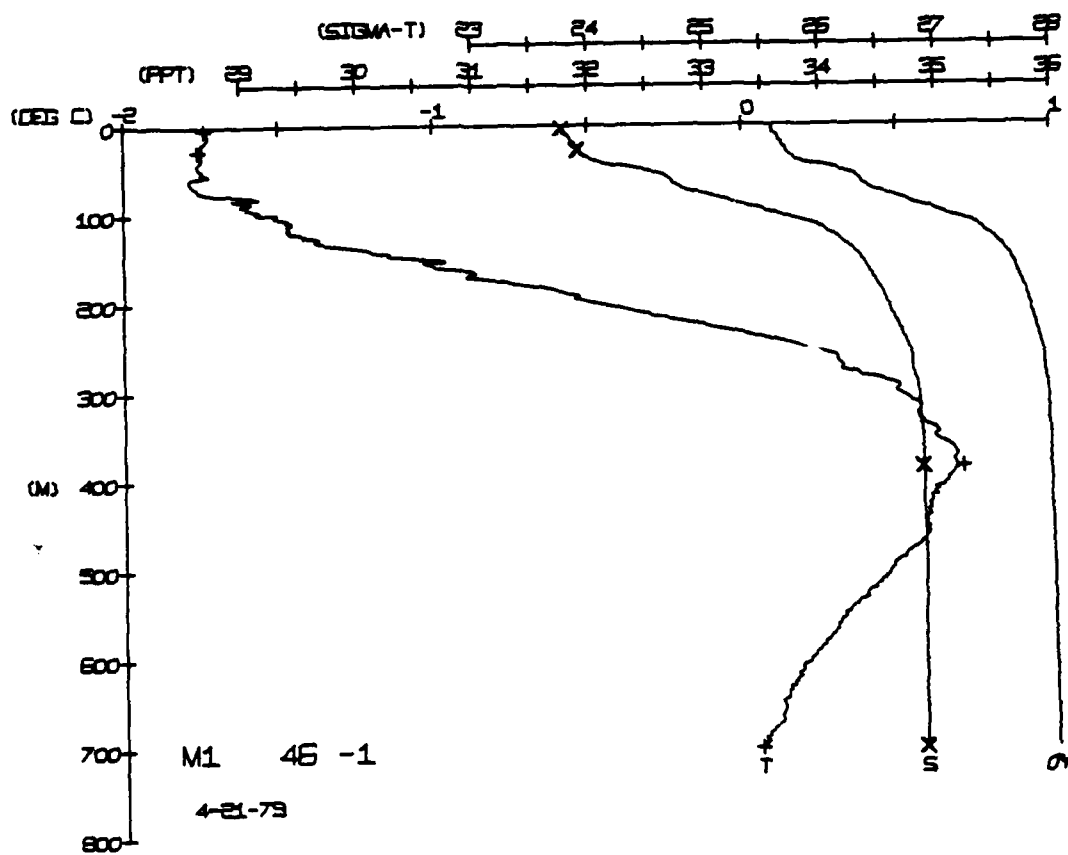
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A



FRAM 1 STATION 47(1) CTD 22/APR/1979 710 GMT CODE = 1
LAT = 84 3267N LNG = 8 3374W LTER = 0 LGR = 0
AIR TEMP = -26.6 BAROM = 1031.1 WIND = 246.0 SPEED = 2.6

DEPTH	TEMP	PIEMP	SALIN	SIO T	SPVOL	DWMT	SOUND
0	74	74	31	66	33	007	1436
1	74	74	31	66	33	007	1436
2	74	74	31	66	33	007	1436
3	74	74	31	66	33	007	1436
4	74	74	31	66	33	007	1436
5	74	74	31	66	33	007	1436
6	74	74	31	66	33	007	1436
7	74	74	31	66	33	007	1436
8	74	74	31	66	33	007	1436
9	74	74	31	66	33	007	1436
10	74	74	31	66	33	007	1436
11	74	74	31	66	33	007	1436
12	74	74	31	66	33	007	1436
13	74	74	31	66	33	007	1436
14	74	74	31	66	33	007	1436
15	74	74	31	66	33	007	1436
16	74	74	31	66	33	007	1436
17	74	74	31	66	33	007	1436
18	74	74	31	66	33	007	1436
19	74	74	31	66	33	007	1436
20	74	74	31	66	33	007	1436
21	74	74	31	66	33	007	1436
22	74	74	31	66	33	007	1436
23	74	74	31	66	33	007	1436
24	74	74	31	66	33	007	1436
25	74	74	31	66	33	007	1436
26	74	74	31	66	33	007	1436
27	74	74	31	66	33	007	1436
28	74	74	31	66	33	007	1436
29	74	74	31	66	33	007	1436
30	74	74	31	66	33	007	1436
31	74	74	31	66	33	007	1436
32	74	74	31	66	33	007	1436
33	74	74	31	66	33	007	1436
34	74	74	31	66	33	007	1436
35	74	74	31	66	33	007	1436
36	74	74	31	66	33	007	1436
37	74	74	31	66	33	007	1436
38	74	74	31	66	33	007	1436
39	74	74	31	66	33	007	1436
40	74	74	31	66	33	007	1436
41	74	74	31	66	33	007	1436
42	74	74	31	66	33	007	1436
43	74	74	31	66	33	007	1436
44	74	74	31	66	33	007	1436
45	74	74	31	66	33	007	1436
46	74	74	31	66	33	007	1436
47	74	74	31	66	33	007	1436
48	74	74	31	66	33	007	1436
49	74	74	31	66	33	007	1436
50	74	74	31	66	33	007	1436
51	74	74	31	66	33	007	1436
52	74	74	31	66	33	007	1436
53	74	74	31	66	33	007	1436
54	74	74	31	66	33	007	1436
55	74	74	31	66	33	007	1436
56	74	74	31	66	33	007	1436
57	74	74	31	66	33	007	1436
58	74	74	31	66	33	007	1436
59	74	74	31	66	33	007	1436
60	74	74	31	66	33	007	1436
61	74	74	31	66	33	007	1436
62	74	74	31	66	33	007	1436
63	74	74	31	66	33	007	1436
64	74						

BAL IN	87
31	90
34	88
34	91



FRAM 1 STATION 48(1) CTD 22/APR/1979 1842 GMT CODE = 1
 LAT = 84.3166N LNO = 8.2522M LTER = 32. LGER = 59.
 AIR TEMP = -26.6 BAROM = 1013.8 WIND = 246.0 SPEED = 2.6

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYKHT	SOUND
0	74	74	31	69	0	000	1436
1	74	74	31	69	0	007	1436
2	74	74	31	69	0	012	1436
3	74	74	31	69	0	023	1436
4	74	74	31	69	0	035	1437
5	74	74	31	69	0	047	1437
6	74	74	31	69	0	058	1437
7	74	74	31	69	0	068	1437
8	74	74	31	69	0	078	1437
9	74	74	31	69	0	081	1437
10	74	74	31	69	0	081	1437
11	74	74	31	69	0	081	1437
12	74	74	31	69	0	081	1437
13	74	74	31	69	0	081	1437
14	74	74	31	69	0	081	1437
15	74	74	31	69	0	081	1437
16	74	74	31	69	0	081	1437
17	74	74	31	69	0	081	1437
18	74	74	31	69	0	081	1437
19	74	74	31	69	0	081	1437
20	74	74	31	69	0	081	1437
21	74	74	31	69	0	081	1437
22	74	74	31	69	0	081	1437
23	74	74	31	69	0	081	1437
24	74	74	31	69	0	081	1437
25	74	74	31	69	0	081	1437
26	74	74	31	69	0	081	1437
27	74	74	31	69	0	081	1437
28	74	74	31	69	0	081	1437
29	74	74	31	69	0	081	1437
30	74	74	31	69	0	081	1437
31	74	74	31	69	0	081	1437
32	74	74	31	69	0	081	1437
33	74	74	31	69	0	081	1437
34	74	74	31	69	0	081	1437
35	74	74	31	69	0	081	1437
36	74	74	31	69	0	081	1437
37	74	74	31	69	0	081	1437
38	74	74	31	69	0	081	1437
39	74	74	31	69	0	081	1437
40	74	74	31	69	0	081	1437
41	74	74	31	69	0	081	1437
42	74	74	31	69	0	081	1437
43	74	74	31	69	0	081	1437
44	74	74	31	69	0	081	1437
45	74	74	31	69	0	081	1437
46	74	74	31	69	0	081	1437
47	74	74	31	69	0	081	1437
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54	74	74	31	69	0	081	1437
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66	74	74	31	69	0	081	1437
67	74	74	31	69	0	081	1437
68	74	74	31	69	0	081	1437
69	74	74	31	69	0	081	1437
70	74	74	31	69	0	081	1437
71	74	74	31	69	0	081	1437

BOT NUM = 1
 BOT NUM = 2
 BOT NUM = 3
 BOT NUM = 4

DEPTH 3.6
 23.9
 384.7
 701.0

TEMP -1.72
 0.68
 0.05

SALIN 31.90
 31.91
 34.88
 34.90

FRAM 1 STATION 49(1) CTD 23/APR/1979 705 GMT CODE = 1
 LAT = 84.3167N LNO = 8.2307M LTER = 4. LGER = 12.
 AIR TEMP = -26.0 BAROM = 1013.5 WIND = 105.0 SPEED = 2.4

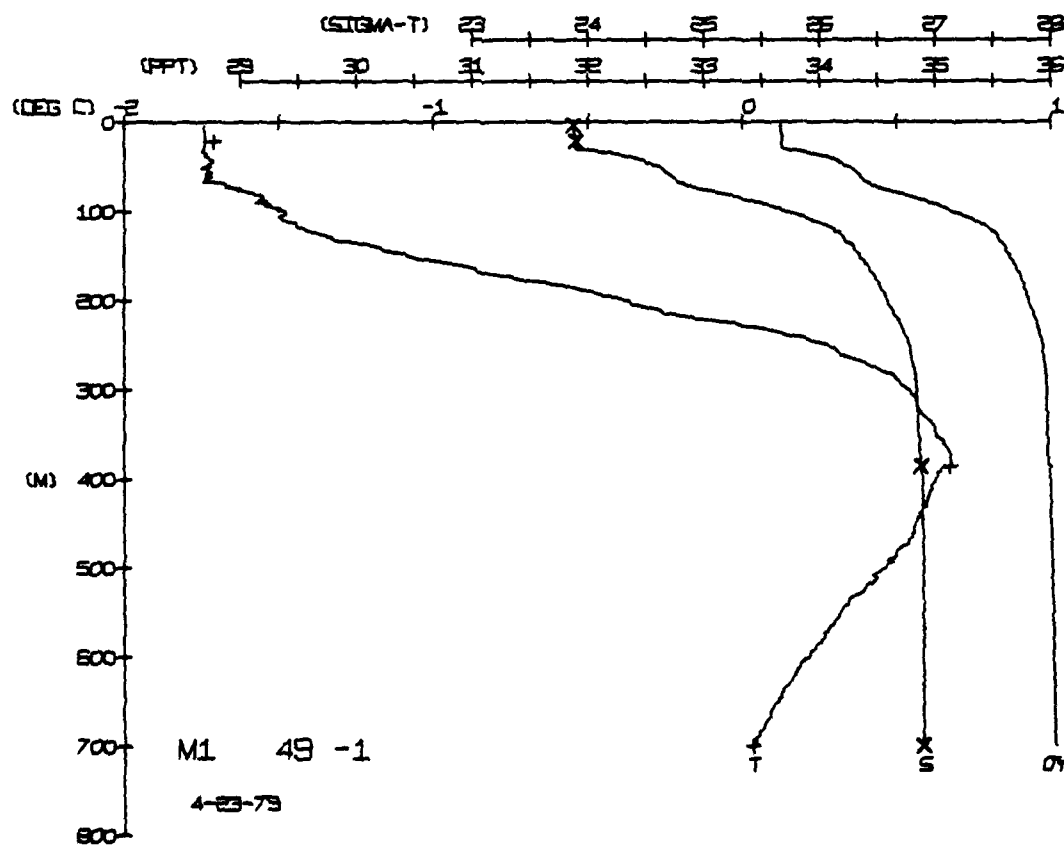
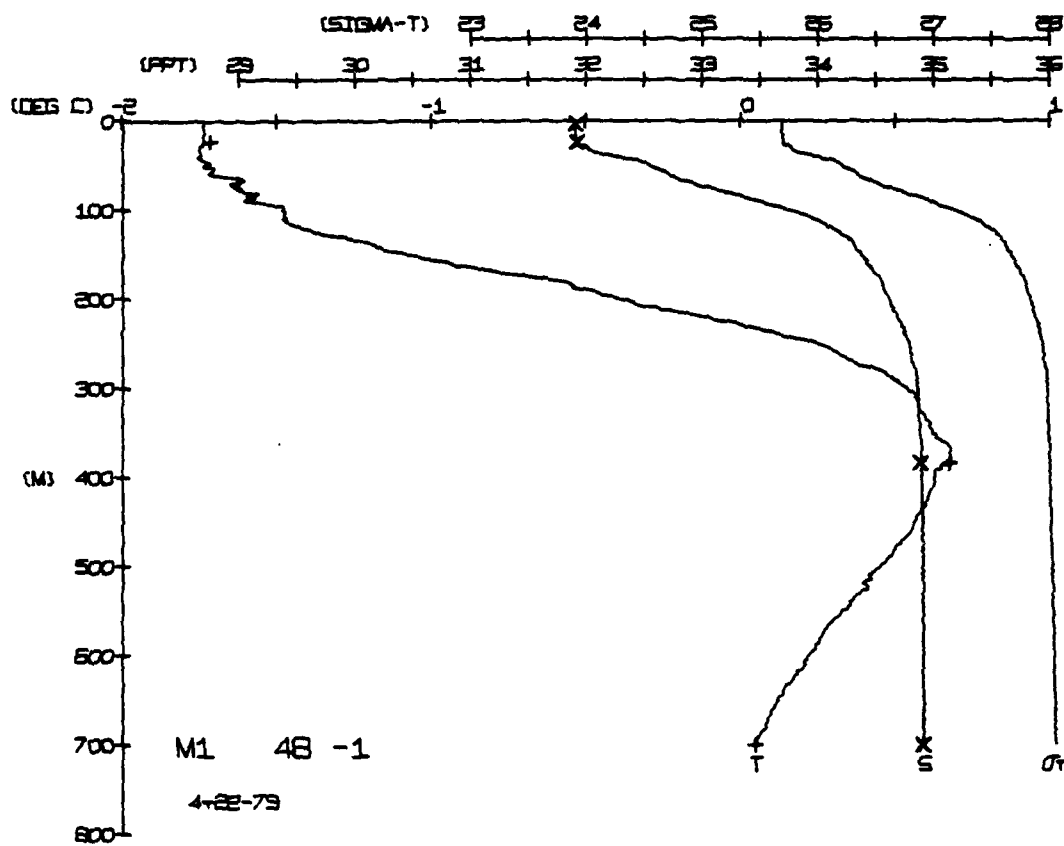
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYKHT	SOUND
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2	74	74	31	67	0	012	1436
3	74	74	31	67	0	023	1436
4	74	74	31	67	0	035	1437
5	74	74	31	67	0	047	1437
6	74	74	31	67	0	058	1437
7	74	74	31	67	0	068	1437
8	74	74	31	67	0	078	1437
9	74	74	31	67	0	081	1437
10	74	74	31	67	0	081	1437
11	74	74	31	67	0	081	1437
12	74	74	31	67	0	081	1437
13	74	74	31	67	0	081	1437
14	74	74	31	67	0	081	1437
15	74	74	31	67	0	081	1437
16	74	74	31	67	0	081	1437
17	74	74	31	67	0	081	1437
18	74	74	31	67	0	081	1437
19	74	74	31	67	0	081	1437
20	74	74	31	67	0	081	1437
21	74	74	31	67	0	081	1437
22	74	74	31	67	0	081	1437
23	74	74	31	67	0	081	1437
24	74	74	31	67	0	081	1437
25	74	74	31	67	0	081	1437
26	74	74	31	67	0	081	1437
27	74	74	31	67	0	081	1437
28	74	74	31	67	0	081	1437
29	74	74	31	67	0	081	1437
30	74	74	31	67	0	081	1437
31	74	74	31	67	0	081	1437
32	74	74	31	67	0	081	1437
33	74	74	31	67	0	081	1437
34	74	74	31	67	0	081	1437
35	74	74	31	67	0	081	1437
36	74	74	31	67	0	081	1437
37	74	74	31	67	0	081	1437
38	74	74	31	67	0	081	1437
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42	74	74	31	67	0	081	1437
43	74	74	31	67	0	081	1437
44	74	74	31	67	0	081	1437
45	74	74	31	67	0	081	1437
46	74	74	31	67	0	081	1437
47	74	74	31	67	0	081	1437
48	74	74	31	67	0	081	1437
49	74	74	31	67	0	081	1437
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64	74	74	31	67	0	081	1437
65	74	74	31	67	0	081	1437
66	74	74	31	67	0	081	1437
67	74	74	31	67	0	081	1437
68	74	74	31	67	0	081	1437
69	74	74	31	67	0	081	1437
70	74	74	31	67	0	081	1437
71	74	74	31	67	0	081	1437

BOT NUM = 1
 BOT NUM = 2
 BOT NUM = 3
 BOT NUM = 4

DEPTH 3.6
 21.9
 386.3
 700.0

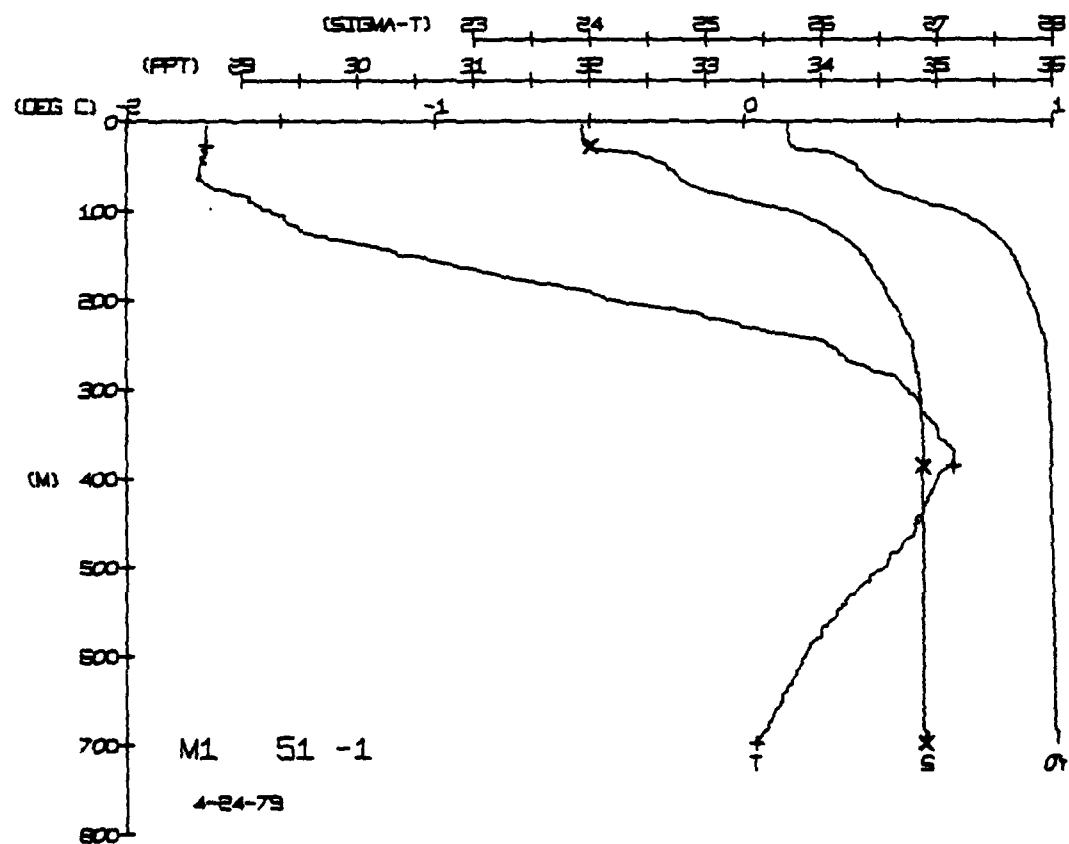
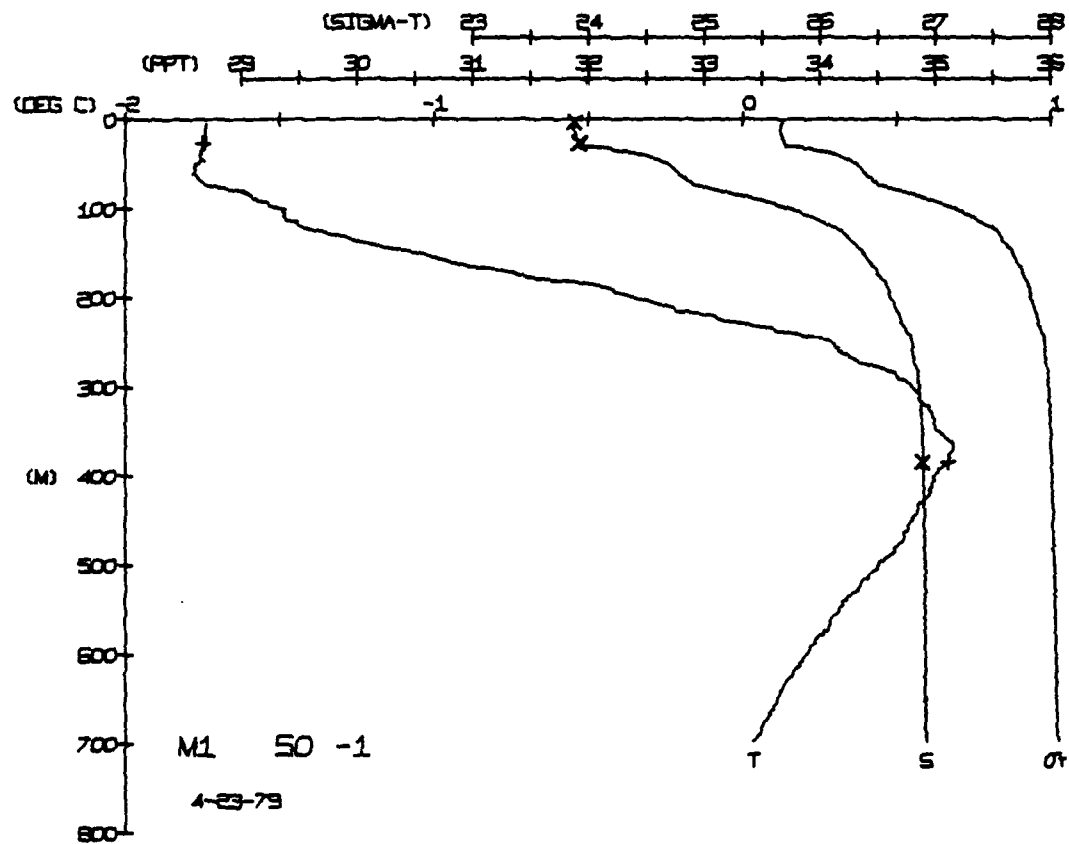
TEMP -1.71
 0.68
 0.04

SALIN 31.87
 31.90
 34.88
 34.90



FRAM 1 STATION 51(1) CTD 24/APR/1979 714 GMT CODE = 1
LAT = 84 3076N LNG = 8.1380W LTER = 0. LGER = 0
AIR TEMP = -23.8 BARDRM = 1021.3 WIND = 51.0 SPEED = 1.6

[illegible]



FRAM 1 STATION 52(1) CTD 24/APR/1979 1724 GMT CODE = 1
LAT = 84 3024N LNG = 8 0877M LTER = 1 LGER = 2
AIR TEMP = -25.8 BARDM = 1021.5 WIND = 51.0 SPEED = 1.6

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYNHT	SOUND
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2	73	73	31	67	232	0	1436
3	73	73	31	67	232	0	1436
4	73	73	31	67	232	0	1436
5	73	73	31	67	232	0	1436
6	73	73	31	67	232	0	1436
7	73	73	31	67	232	0	1436
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9	73	73	31	67	232	0	1436
10	73	73	31	67	232	0	1436
11	73	73	31	67	232	0	1436
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13	73	73	31	67	232	0	1436
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15	73	73	31	67	232	0	1436
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41	73	73	31	67	232	0	1436
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43	73	73	31	67	232	0	1436
44	73	73	31	67	232	0	1436
45	73	73	31	67	232	0	1436
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71	73	73	31	67	232	0	1436
72	73	73	31	67	232	0	1436
73	73	73	31	67	232	0	1436
74	73	73	31	67	232	0	1436
75	73	73	31	67	232	0	1436
76	73	73	31	67	232	0	1436
77	73	73	31	67	232	0	1436
78	73	73	31	67	232	0	1436
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95	73	73	31	67	232	0	1436
96	73	73	31	67	232	0	1436
97	73	73	31	67	232	0	1436
98	73	73	31	67	232	0	1436
99	73	73	31	67	232	0	1436
100	73	73	31	67	232	0	1436

BOT NUM = 1
BOT NUM = 2
BOT NUM = 3
BOT NUM = 4

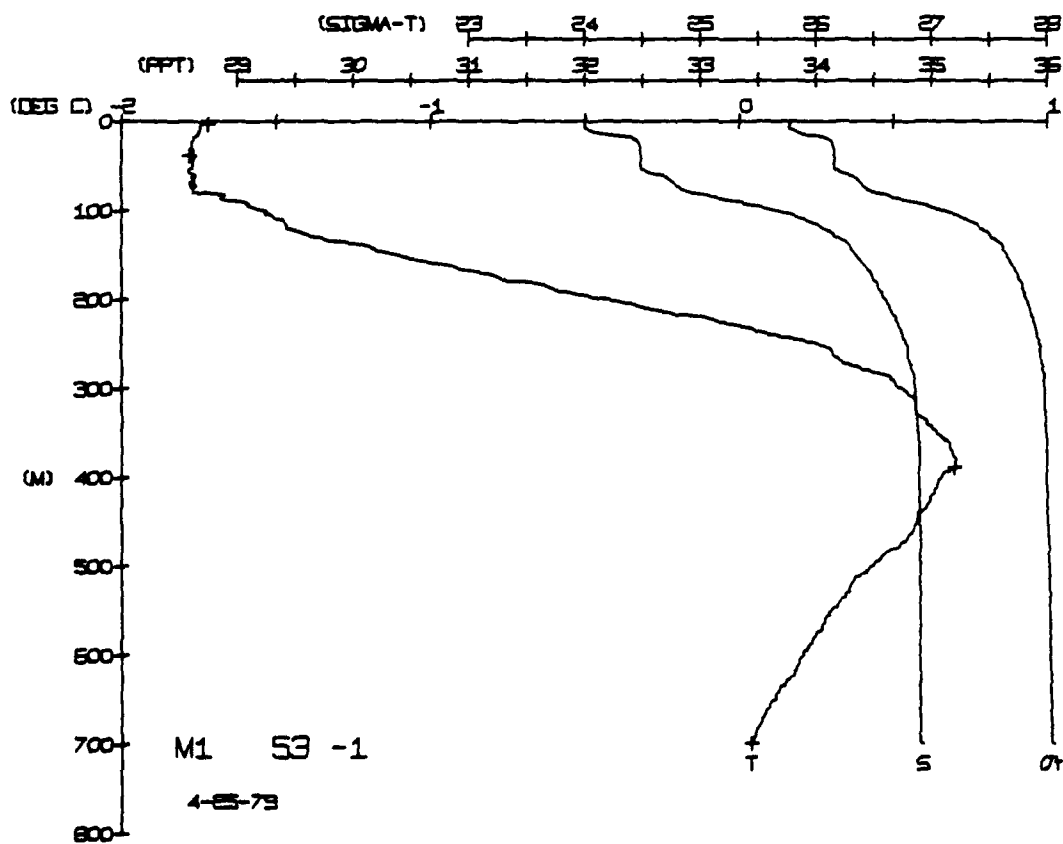
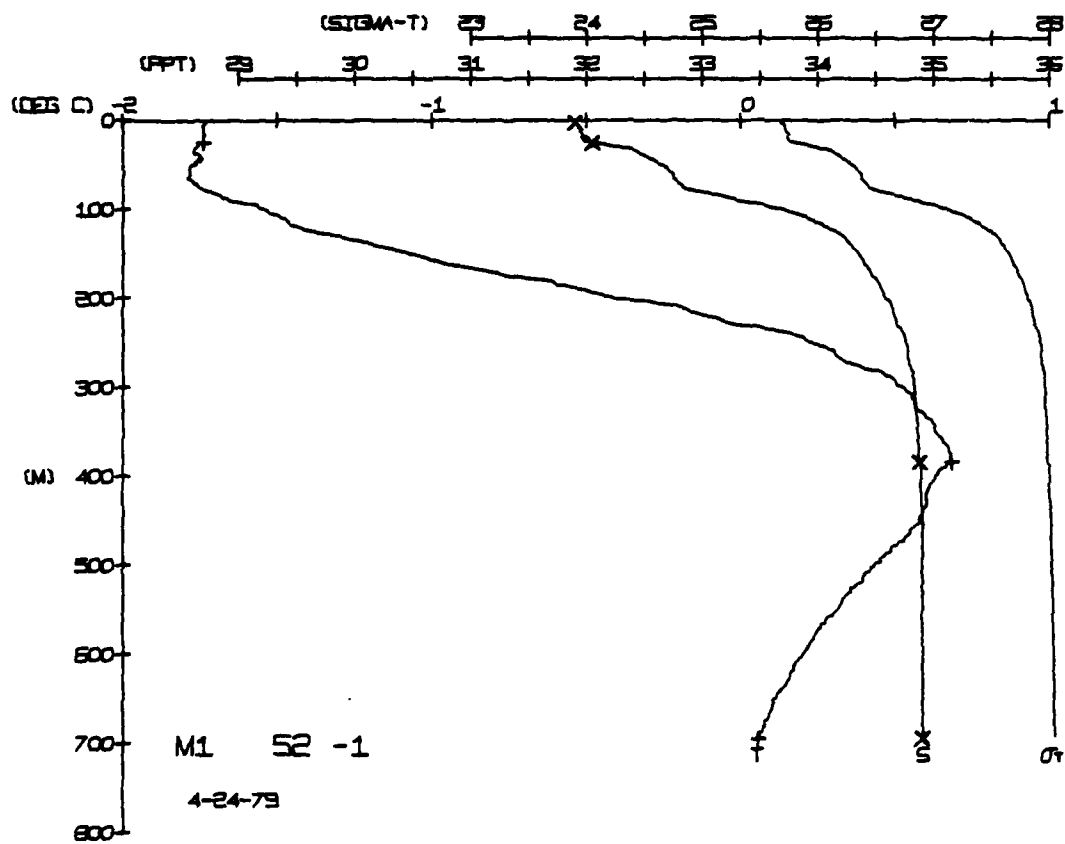
DEPTH 3.4
38.6
38.2
69.5

TEMP -1.74
-0.69
0.05

SALIN 31.90
32.03
34.88
34.90

FRAM 1 STATION 53(1) CTD 25/APR/1979 1140 GMT CODE = 1
LAT = 84 2922N LNG = 8 0162M LTER = 1 LGER = 2
AIR TEMP = -21.9 BARDM = 1050.4 WIND = 125.0 SPEED = 1.2

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYNHT	SOUND
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7	74	74	32	76	233	0	1436
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9	74	74	32	76	233	0	1436
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187	74	74	32	76	233	0	1436
188	74	74	32	76	233	0	1436
189	74	74	32	76	233	0	1436
190	74	74	32	76	233	0	1436
191	74	74	32	76	233	0	1436
192	74	74	32	76	233	0	1436
193	74	74	32	76	233	0	1436
194	74	74	32	76	233	0	1436
195	74	74	32	76	233	0	1436
196	74	74	32	76	233	0	1436
197	74	74					



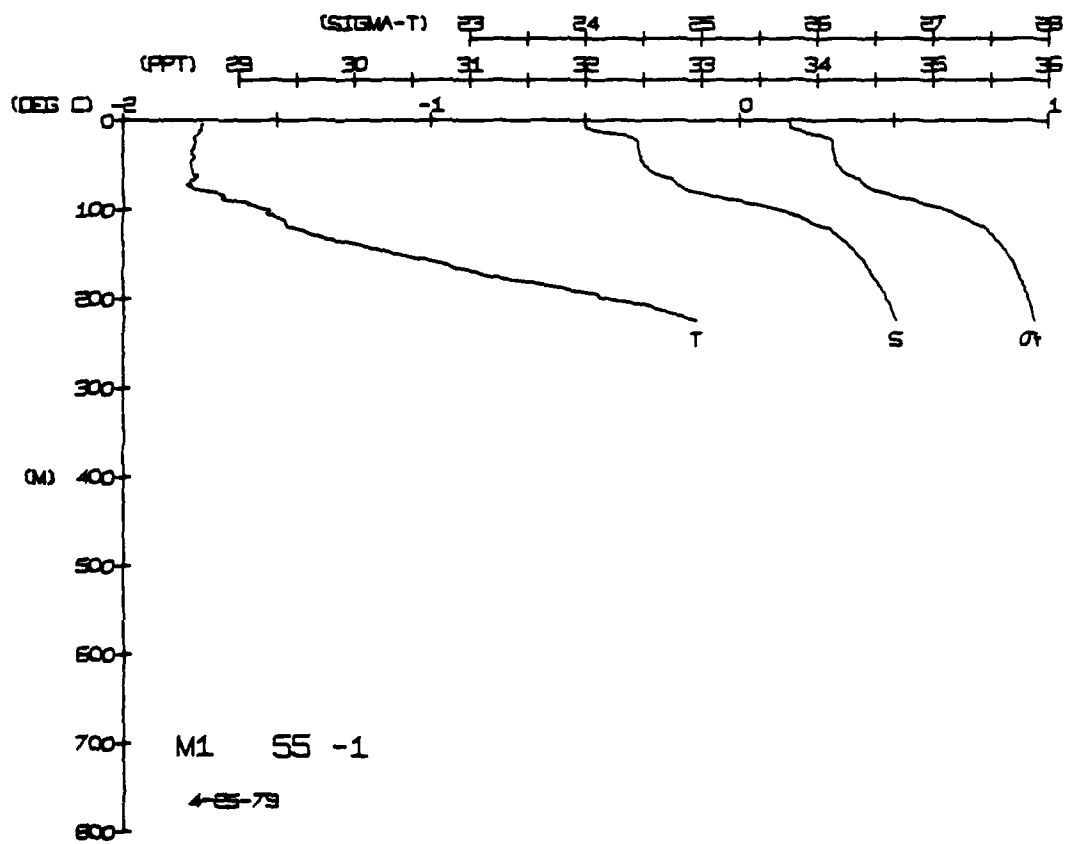
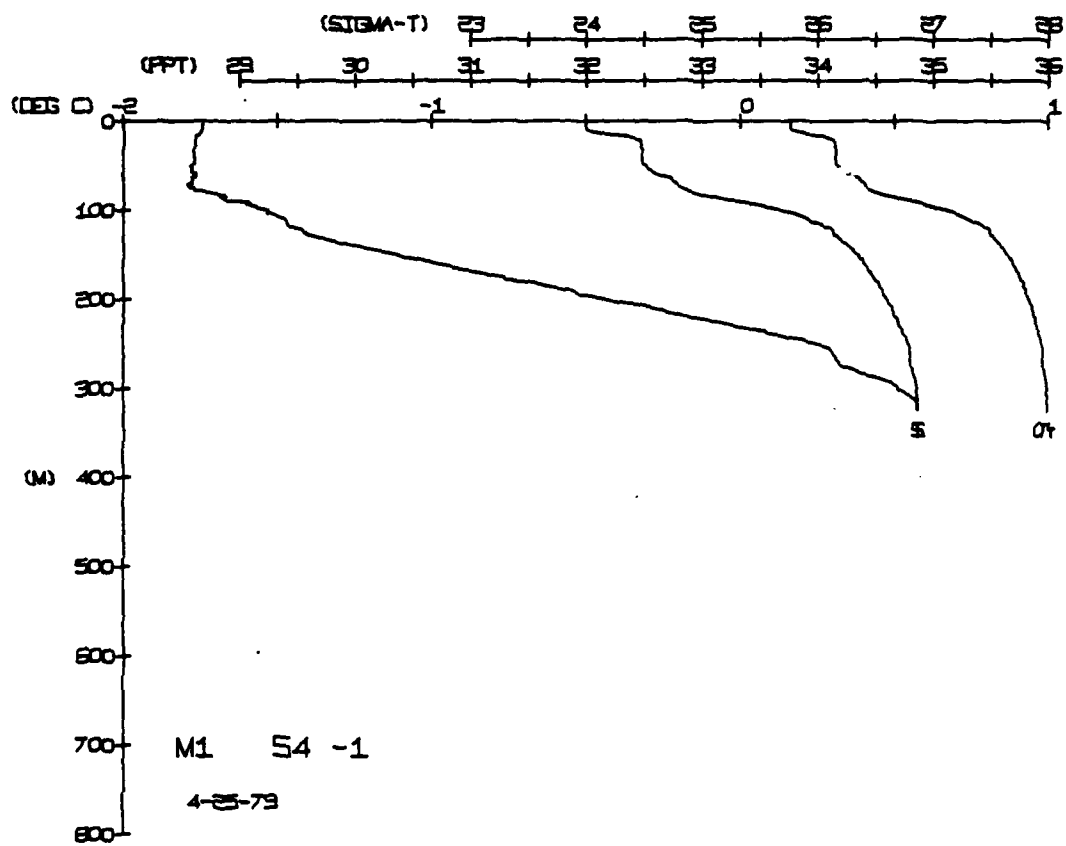
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FRAM 1 STATION 35(1) CTD 25/APR/1979 1430 GMT CODE = 1
LAT = 84.2926N LNG = 8.018W LTER = 0. LGR = 0.
AIR TEMP = -22.0 BAROM = 1020.5 WIND = 124.0 SPEED = 0.9

```

DEPTH	TEMP.	SALIN
10	10.0	35.0
20	10.0	35.0
30	10.0	35.0
40	10.0	35.0
50	10.0	35.0
60	10.0	35.0
70	10.0	35.0
80	10.0	35.0
90	10.0	35.0
100	10.0	35.0
110	10.0	35.0
120	10.0	35.0
130	10.0	35.0
140	10.0	35.0
150	10.0	35.0
160	10.0	35.0
170	10.0	35.0
180	10.0	35.0
190	10.0	35.0
200	10.0	35.0
210	10.0	35.0
220	10.0	35.0
230	10.0	35.0
240	10.0	35.0
250	10.0	35.0
260	10.0	35.0
270	10.0	35.0
280	10.0	35.0
290	10.0	35.0
300	10.0	35.0
310	10.0	35.0
320	10.0	35.0
330	10.0	35.0
340	10.0	35.0
350	10.0	35.0
360	10.0	35.0
370	10.0	35.0
380	10.0	35.0
390	10.0	35.0
400	10.0	35.0
410	10.0	35.0
420	10.0	35.0
430	10.0	35.0
440	10.0	35.0
450	10.0	35.0
460	10.0	35.0
470	10.0	35.0
480	10.0	35.0
490	10.0	35.0
500	10.0	35.0
510	10.0	35.0
520	10.0	35.0
530	10.0	35.0
540	10.0	35.0
550	10.0	35.0
560	10.0	35.0
570	10.0	35.0
580	10.0	35.0
590	10.0	35.0
600	10.0	35.0
610	10.0	35.0
620	10.0	35.0
630	10.0	35.0
640	10.0	35.0
650	10.0	35.0
660	10.0	35.0
670	10.0	35.0
680	10.0	35.0
690	10.0	35.0
700	10.0	35.0
710	10.0	35.0
720	10.0	35.0
730	10.0	35.0
740	10.0	35.0
750	10.0	35.0
760	10.0	35.0
770	10.0	35.0
780	10.0	35.0
790	10.0	35.0
800	10.0	35.0
810	10.0	35.0
820	10.0	35.0
830	10.0	35.0
840	10.0	35.0
850	10.0	35.0
860	10.0	35.0
870	10.0	35.0
880	10.0	35.0
890	10.0	35.0
900	10.0	35.0
910	10.0	35.0
920	10.0	35.0
930	10.0	35.0
940	10.0	35.0
950	10.0	35.0
960	10.0	35.0
970	10.0	35.0
980	10.0	35.0
990	10.0	35.0
1000	10.0	35.0

232 1451.5

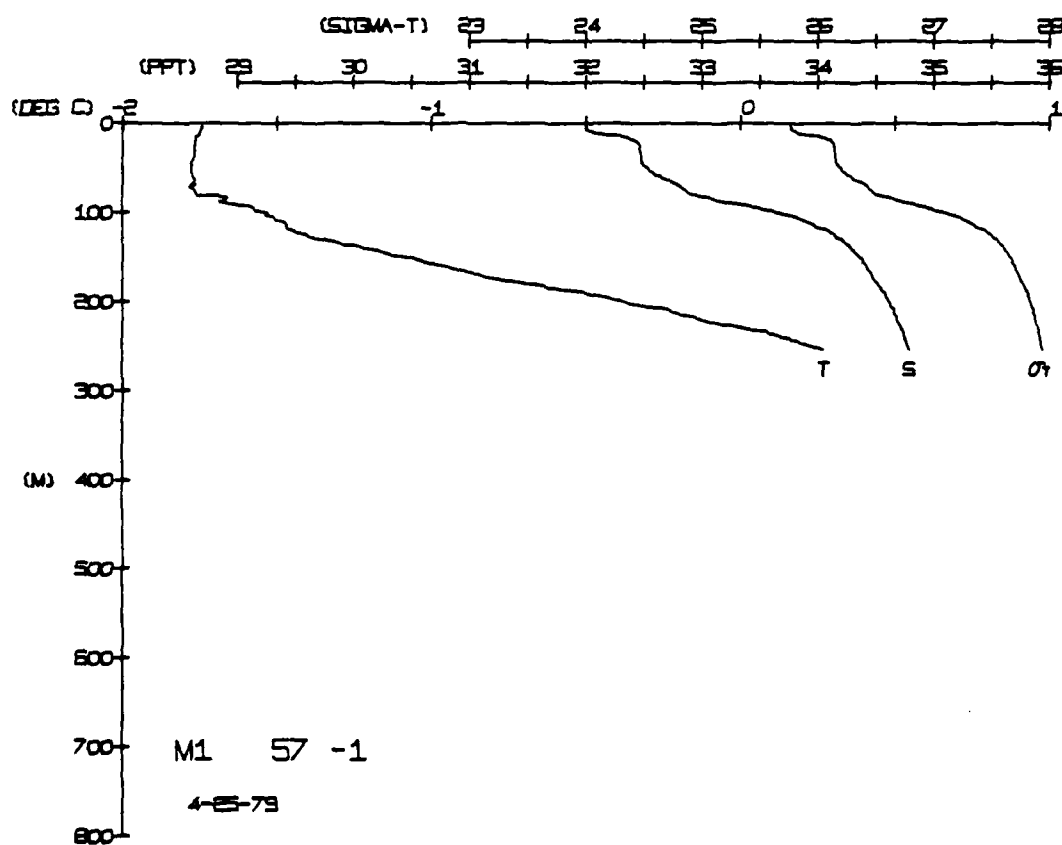
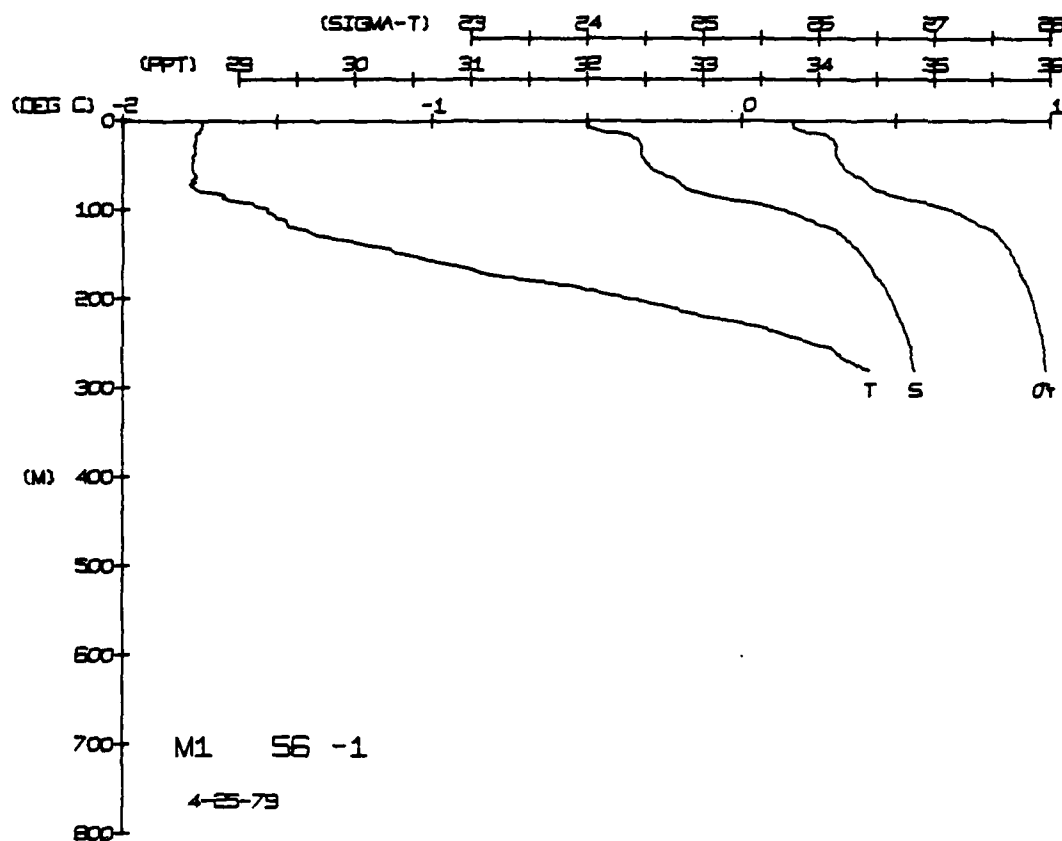


FRAM 1 STATION 56(1) CTD 25/APR/1979 1605 GMT CODE = 1
LAT = 84 2946N LNG = 9 0132W LTER = 13 LGER = 37
AIR TEMP = -22 0 BAROM = 1020 5 WIND = 124 0 SPEED = 0 9

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYNHT	SOUND
0	74	74	32	01	223	0	1436
3	74	74	32	01	223	0	1436
10	74	74	32	01	223	0	1436
15	74	74	32	01	223	0	1436
20	74	74	32	01	223	0	1436
25	74	74	32	01	223	0	1436
30	74	74	32	01	223	0	1436
35	74	74	32	01	223	0	1436
40	74	74	32	01	223	0	1436
45	74	74	32	01	223	0	1436
50	74	74	32	01	223	0	1436
55	74	74	32	01	223	0	1436
60	74	74	32	01	223	0	1436
65	74	74	32	01	223	0	1436
70	74	74	32	01	223	0	1436
75	74	74	32	01	223	0	1436
80	74	74	32	01	223	0	1436
85	74	74	32	01	223	0	1436
90	74	74	32	01	223	0	1436
95	74	74	32	01	223	0	1436
100	74	74	32	01	223	0	1436
105	74	74	32	01	223	0	1436
110	74	74	32	01	223	0	1436
115	74	74	32	01	223	0	1436
120	74	74	32	01	223	0	1436
125	74	74	32	01	223	0	1436
130	74	74	32	01	223	0	1436
135	74	74	32	01	223	0	1436
140	74	74	32	01	223	0	1436
145	74	74	32	01	223	0	1436
150	74	74	32	01	223	0	1436
155	74	74	32	01	223	0	1436
160	74	74	32	01	223	0	1436
165	74	74	32	01	223	0	1436
170	74	74	32	01	223	0	1436
175	74	74	32	01	223	0	1436
180	74	74	32	01	223	0	1436
185	74	74	32	01	223	0	1436
190	74	74	32	01	223	0	1436
195	74	74	32	01	223	0	1436
200	74	74	32	01	223	0	1436
205	74	74	32	01	223	0	1436
210	74	74	32	01	223	0	1436
215	74	74	32	01	223	0	1436
220	74	74	32	01	223	0	1436
225	74	74	32	01	223	0	1436
230	74	74	32	01	223	0	1436
235	74	74	32	01	223	0	1436
240	74	74	32	01	223	0	1436
245	74	74	32	01	223	0	1436
250	74	74	32	01	223	0	1436
255	74	74	32	01	223	0	1436
260	74	74	32	01	223	0	1436
265	74	74	32	01	223	0	1436
270	74	74	32	01	223	0	1436
275	74	74	32	01	223	0	1436
280	74	74	32	01	223	0	1436

FRAM 1 STATION 57(1) CTD 25/APR/1979 1648 GMT CODE = 1
LAT = 84 2943N LNG = 9 0107W LTER = 6 LGER = 16
AIR TEMP = -21 7 BAROM = 1020 6 WIND = 51 0 SPEED = 0 9

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYNHT	SOUND
0	74	74	32	01	222	7	1436
3	74	74	32	01	222	7	1436
10	74	74	32	01	222	7	1436
15	74	74	32	01	222	7	1436
20	74	74	32	01	222	7	1436
25	74	74	32	01	222	7	1436
30	74	74	32	01	222	7	1436
35	74	74	32	01	222	7	1436
40	74	74	32	01	222	7	1436
45	74	74	32	01	222	7	1436
50	74	74	32	01	222	7	1436
55	74	74	32	01	222	7	1436
60	74	74	32	01	222	7	1436
65	74	74	32	01	222	7	1436
70	74	74	32	01	222	7	1436
75	74	74	32	01	222	7	1436
80	74	74	32	01	222	7	1436
85	74	74	32	01	222	7	1436
90	74	74	32	01	222	7	1436
95	74	74	32	01	222	7	1436
100	74	74	32	01	222	7	1436
105	74	74	32	01	222	7	1436
110	74	74	32	01	222	7	1436
115	74	74	32	01	222	7	1436
120	74	74	32	01	222	7	1436
125	74	74	32	01	222	7	1436
130	74	74	32	01	222	7	1436
135	74	74	32	01	222	7	1436
140	74	74	32	01	222	7	1436
145	74	74	32	01	222	7	1436
150	74	74	32	01	222	7	1436
155	74	74	32	01	222	7	1436
160	74	74	32	01	222	7	1436
165	74	74	32	01	222	7	1436
170	74	74	32	01	222	7	1436
175	74	74	32	01	222	7	1436
180	74	74	32	01	222	7	1436
185	74	74	32	01	222	7	1436
190	74	74	32	01	222	7	1436
195	74	74	32	01	222	7	1436
200	74	74	32	01	222	7	1436
205	74	74	32	01	222	7	1436
210	74	74	32	01	222	7	1436
215	74	74	32	01	222	7	1436
220	74	74	32	01	222	7	1436
225	74	74	32	01	222	7	1436
230	74	74	32	01	222	7	1436
235	74	74	32	01	222	7	1436
240	74	74	32	01	222	7	1436
245	74	74	32	01	222	7	1436
250	74	74	32	01	222	7	1436
255	74	74	32	01	222	7	1436
260	74	74	32	01	222	7	1436
265	74	74	32	01	222	7	1436
270	74	74	32	01	222	7	1436
275	74	74	32	01	222	7	1436
280	74	74	32	01	222	7	1436



FRAM 1 STATION 58(1) CTD 25/APR/1979 1734 GMT CODE = 1
LAT = 84 2918N LNG = 8 0075W LTER = 0 UGER = 0
AIR TEMP = -21.7 BAROM = 1020.6 WIND = 51.0 SPEED = 0.9

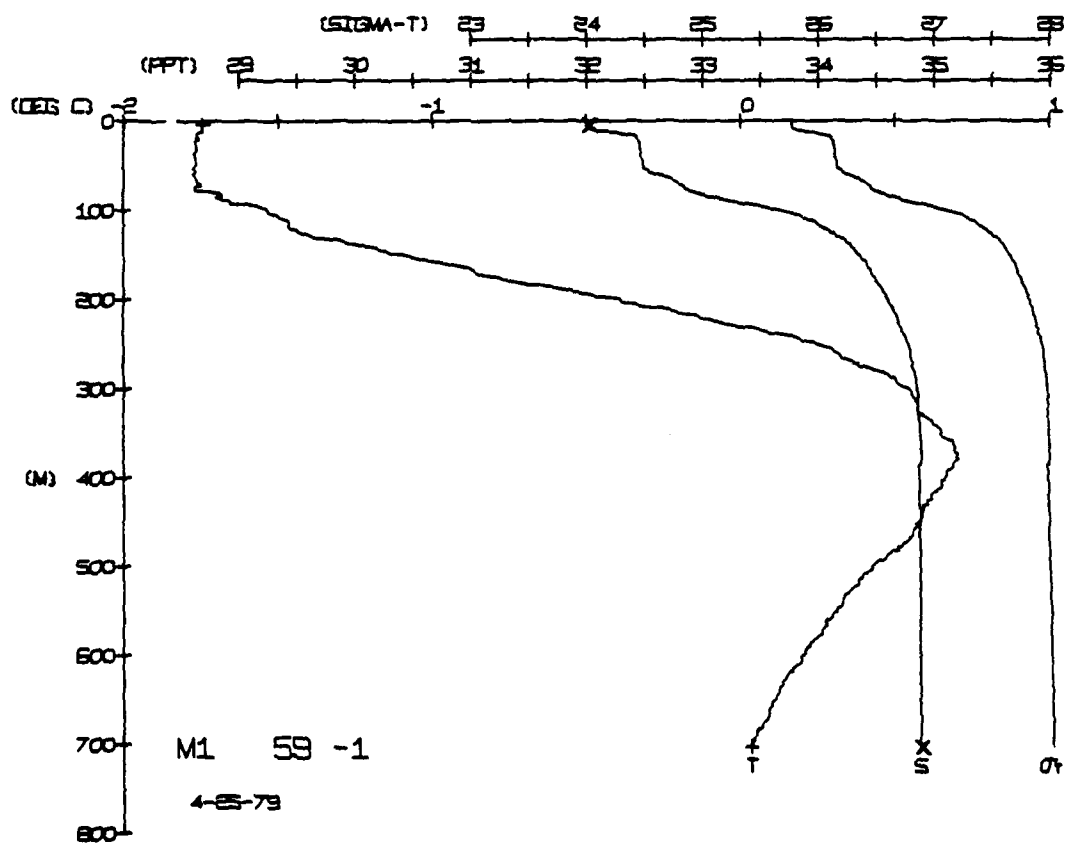
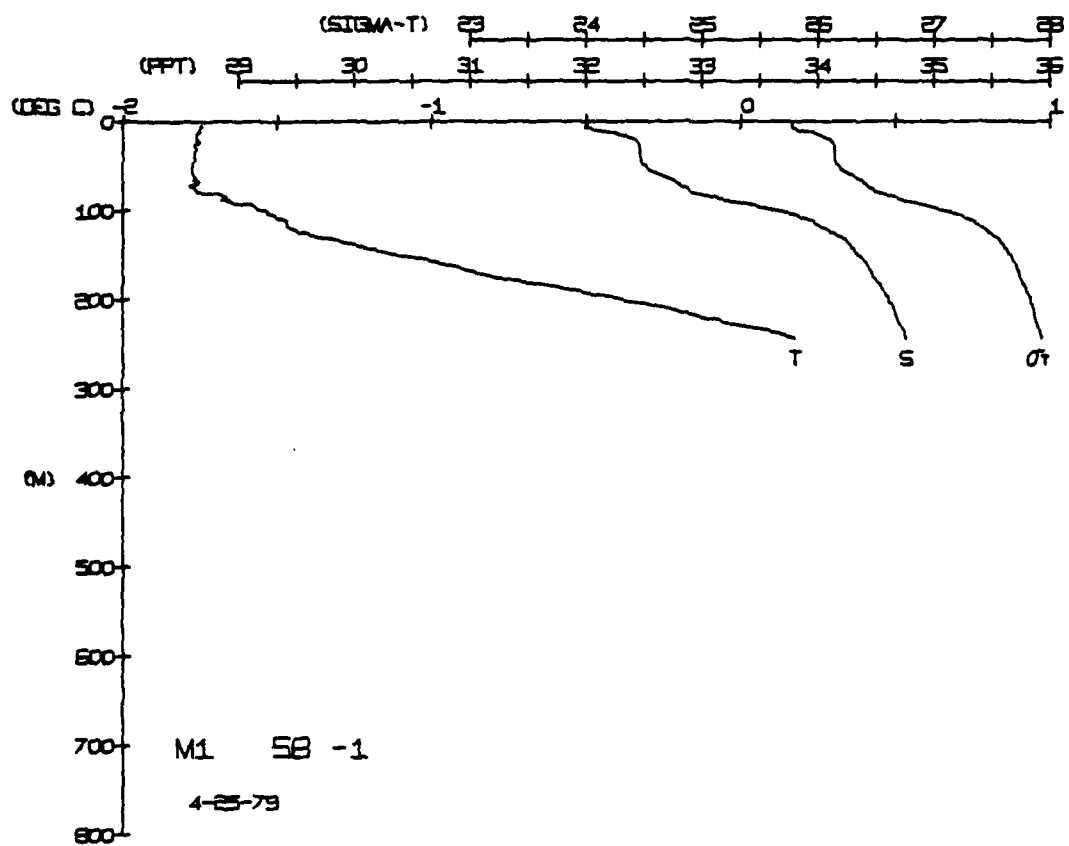
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYHNT	SOUND
0	74	74	32	01	23	0	1436
3	74	74	32	01	23	0	1436
10	74	74	32	01	23	0	1436
15	74	74	32	01	23	0	1436
20	74	74	32	01	23	0	1436
25	74	74	32	01	23	0	1436
30	74	74	32	01	23	0	1436
35	74	74	32	01	23	0	1436
40	74	74	32	01	23	0	1436
45	74	74	32	01	23	0	1436
50	74	74	32	01	23	0	1436
55	74	74	32	01	23	0	1436
60	74	74	32	01	23	0	1436
65	74	74	32	01	23	0	1436
70	74	74	32	01	23	0	1436
75	74	74	32	01	23	0	1436
80	74	74	32	01	23	0	1436
85	74	74	32	01	23	0	1436
90	74	74	32	01	23	0	1436
95	74	74	32	01	23	0	1436
100	74	74	32	01	23	0	1436
105	74	74	32	01	23	0	1436
110	74	74	32	01	23	0	1436
115	74	74	32	01	23	0	1436
120	74	74	32	01	23	0	1436
125	74	74	32	01	23	0	1436
130	74	74	32	01	23	0	1436
135	74	74	32	01	23	0	1436
140	74	74	32	01	23	0	1436
145	74	74	32	01	23	0	1436
150	74	74	32	01	23	0	1436
155	74	74	32	01	23	0	1436
160	74	74	32	01	23	0	1436
165	74	74	32	01	23	0	1436
170	74	74	32	01	23	0	1436
175	74	74	32	01	23	0	1436
180	74	74	32	01	23	0	1436
185	74	74	32	01	23	0	1436
190	74	74	32	01	23	0	1436
195	74	74	32	01	23	0	1436
200	74	74	32	01	23	0	1436
205	74	74	32	01	23	0	1436
210	74	74	32	01	23	0	1436
215	74	74	32	01	23	0	1436
220	74	74	32	01	23	0	1436
225	74	74	32	01	23	0	1436
230	74	74	32	01	23	0	1436
235	74	74	32	01	23	0	1436
240	74	74	32	01	23	0	1436
245	74	74	32	01	23	0	1436
250	74	74	32	01	23	0	1436

FRAM 1 STATION 59(1) CTD 25/APR/1979 1858 GMT CODE = 1
LAT = 84 2850N LNG = 8 0040W LTER = 0 UGER = 0
AIR TEMP = -22.0 BAROM = 1020.8 WIND = 50.0 SPEED = 2.0

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYHNT	SOUND
0	74	74	32	02	23	0	1436
3	74	74	32	02	23	0	1436
10	74	74	32	02	23	0	1436
15	74	74	32	02	23	0	1436
20	74	74	32	02	23	0	1436
25	74	74	32	02	23	0	1436
30	74	74	32	02	23	0	1436
35	74	74	32	02	23	0	1436
40	74	74	32	02	23	0	1436
45	74	74	32	02	23	0	1436
50	74	74	32	02	23	0	1436
55	74	74	32	02	23	0	1436
60	74	74	32	02	23	0	1436
65	74	74	32	02	23	0	1436
70	74	74	32	02	23	0	1436
75	74	74	32	02	23	0	1436
80	74	74	32	02	23	0	1436
85	74	74	32	02	23	0	1436
90	74	74	32	02	23	0	1436
95	74	74	32	02	23	0	1436
100	74	74	32	02	23	0	1436
105	74	74	32	02	23	0	1436
110	74	74	32	02	23	0	1436
115	74	74	32	02	23	0	1436
120	74	74	32	02	23	0	1436
125	74	74	32	02	23	0	1436
130	74	74	32	02	23	0	1436
135	74	74	32	02	23	0	1436
140	74	74	32	02	23	0	1436
145	74	74	32	02	23	0	1436
150	74	74	32	02	23	0	1436
155	74	74	32	02	23	0	1436
160	74	74	32	02	23	0	1436
165	74	74	32	02	23	0	1436
170	74	74	32	02	23	0	1436
175	74	74	32	02	23	0	1436
180	74	74	32	02	23	0	1436
185	74	74	32	02	23	0	1436
190	74	74	32	02	23	0	1436
195	74	74	32	02	23	0	1436
200	74	74	32	02	23	0	1436
205	74	74	32	02	23	0	1436
210	74	74	32	02	23	0	1436
215	74	74	32	02	23	0	1436
220	74	74	32	02	23	0	1436
225	74	74	32	02	23	0	1436
230	74	74	32	02	23	0	1436
235	74	74	32	02	23	0	1436
240	74	74	32	02	23	0	1436
245	74	74	32	02	23	0	1436
250	74	74	32	02	23	0	1436

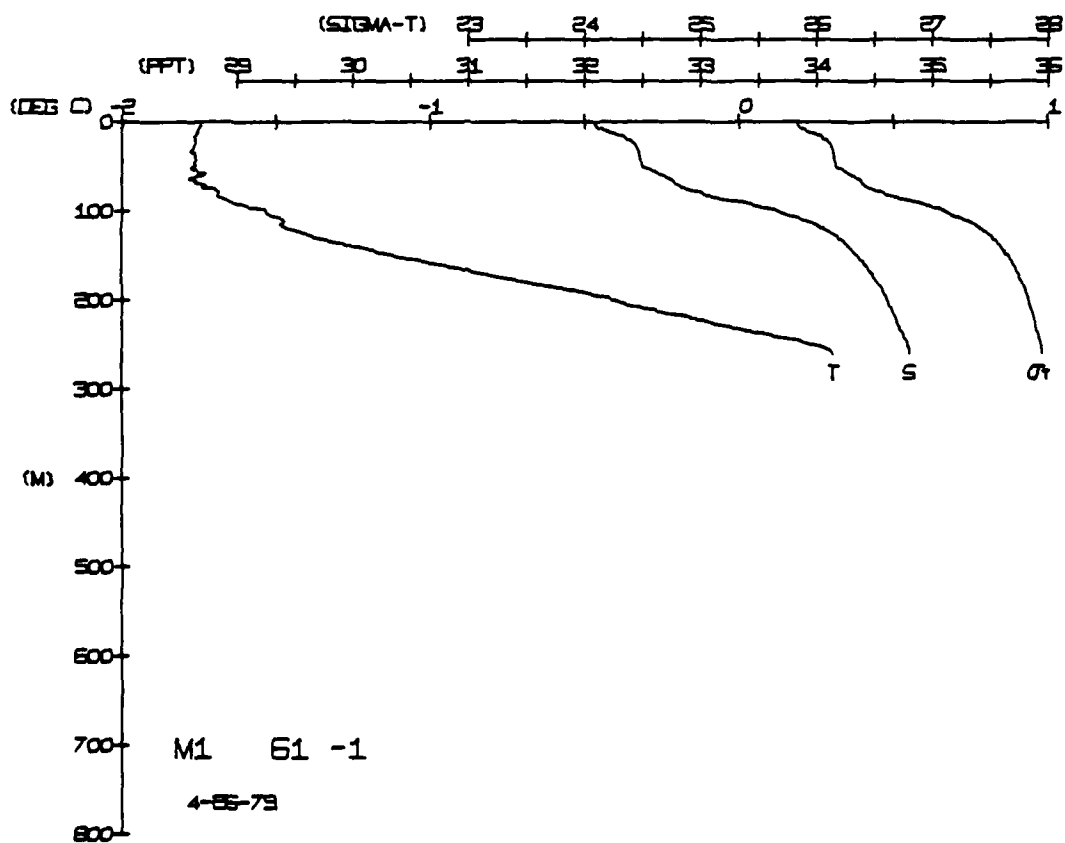
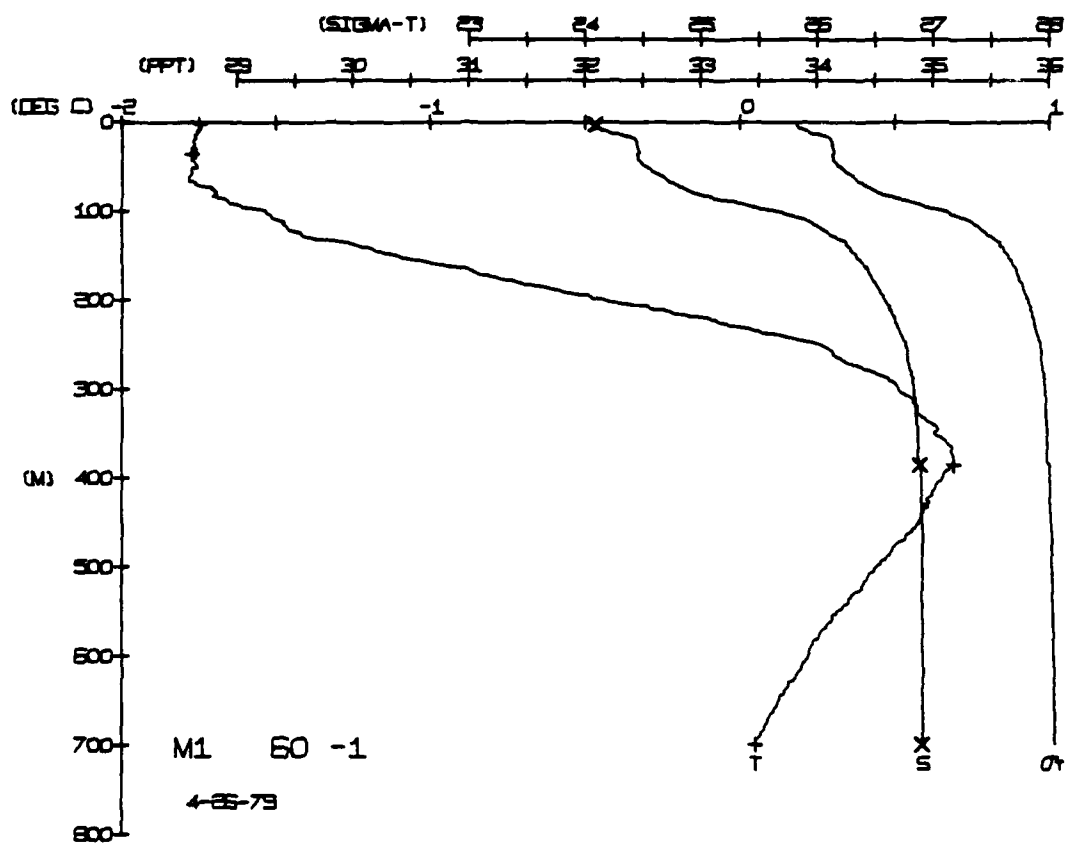
DEPTH TEMP SALIN

BOT NUM = 1 703.3 -1.75 32.02
BOT NUM = 2 703.3 0.04 34.90



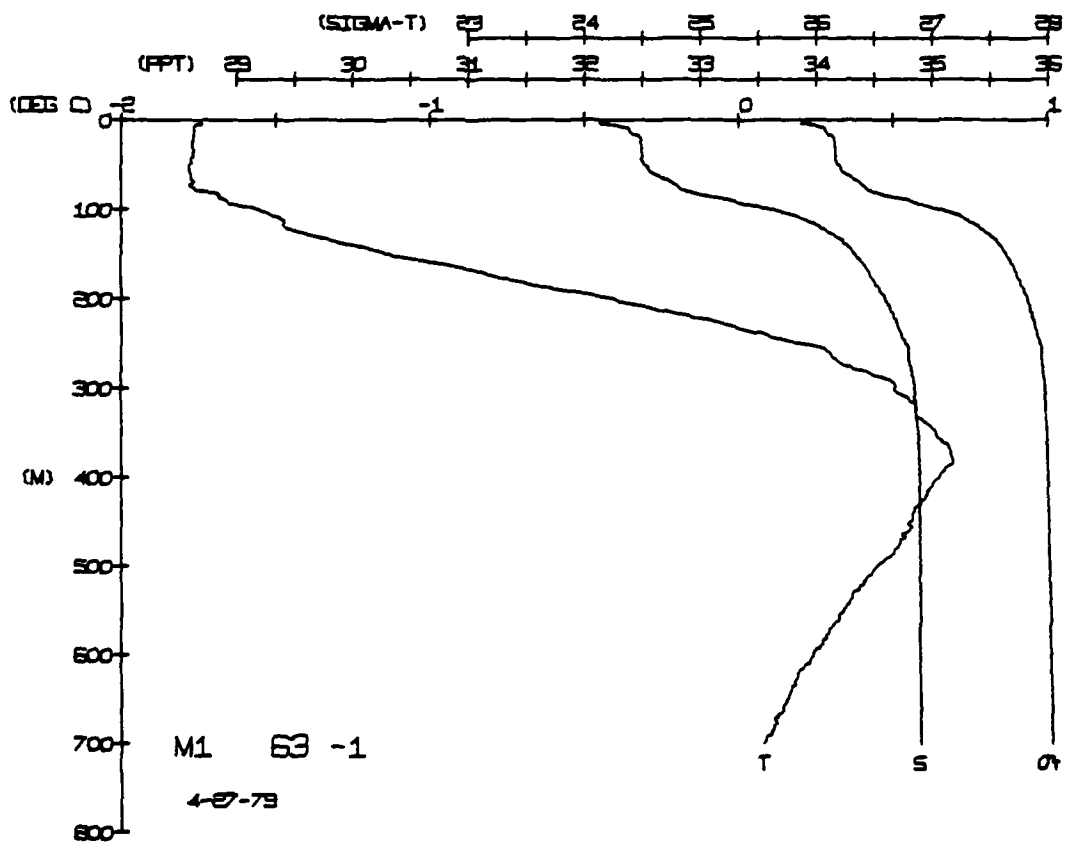
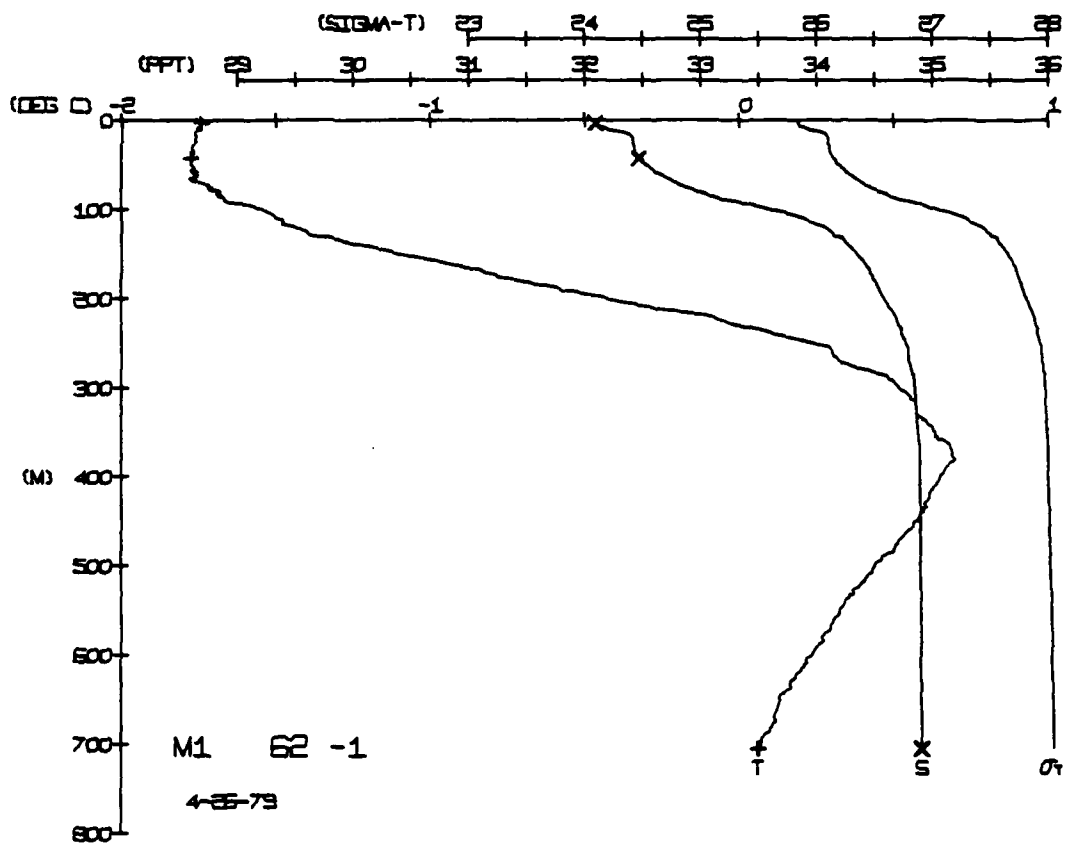
FRAM 1 STATION 61(1) CTD 26/APR/1979 1337 GMT CODE = 1
LAT = 84.2879N LNG = 7.9507W LTER = 1 LGER = 1
AIR TEMP = -21.3 BARDM = 1017.2 WIND = 130 0 SPEED = 2.1

DEPTH	TEMP	PIEMP	SALIN	SIG 1	SIG 1	SPVOL	DYNMT	SOUND
0	74	74	32	83	21	9	000	1437
1	74	74	32	83	22	9	000	1437
2	74	74	32	83	22	9	000	1437
3	76	76	32	83	22	9	000	1437
4	76	76	32	83	22	9	000	1437
5	77	77	32	83	22	9	000	1437
6	77	77	32	83	22	9	000	1437
7	76	76	32	83	22	9	000	1437
8	76	76	32	83	22	9	000	1437
9	76	76	32	83	22	9	000	1437
10	75	75	32	83	22	9	000	1437
11	75	75	32	83	22	9	000	1437
12	75	75	32	83	22	9	000	1437
13	75	75	32	83	22	9	000	1437
14	75	75	32	83	22	9	000	1437
15	75	75	32	83	22	9	000	1437
16	75	75	32	83	22	9	000	1437
17	75	75	32	83	22	9	000	1437
18	75	75	32	83	22	9	000	1437
19	75	75	32	83	22	9	000	1437
20	75	75	32	83	22	9	000	1437
21	75	75	32	83	22	9	000	1437
22	75	75	32	83	22	9	000	1437
23	75	75	32	83	22	9	000	1437
24	75	75	32	83	22	9	000	1437
25	75	75	32	83	22	9	000	1437
26	75	75	32	83	22	9	000	1437
27	75	75	32	83	22	9	000	1437
28	75	75	32	83	22	9	000	1437
29	75	75	32	83	22	9	000	1437
30	75	75	32	83	22	9	000	1437
31	75	75	32	83	22	9	000	1437
32	75	75	32	83	22	9	000	1437
33	75	75	32	83	22	9	000	1437
34	75	75	32	83	22	9	000	1437
35	75	75	32	83	22	9	000	1437
36	75	75	32	83	22	9	000	1437
37	75	75	32	83	22	9	000	1437
38	75	75	32	83	22	9	000	1437
39	75	75	32	83	22	9	000	1437
40	75	75	32	83	22	9	000	1437
41	75	75	32	83	22	9	000	1437
42	75	75	32	83	22	9	000	1437
43	75	75	32	83	22	9	000	1437
44	75	75	32	83	22	9	000	1437
45	75	75	32	83	22	9	000	1437
46	75	75	32	83	22	9	000	1437
47	75	75	32	83	22	9	000	1437
48	75	75	32	83	22	9	000	1437
49	75	75	32	83	22	9	000	1437
50	75	75	32	83	22	9	000	1437
51	75	75	32	83	22	9	000	1437
52	75	75	32	83	22	9	000	1437
53	75	75	32	83	22	9	000	1437
54	75	75	32	83	22	9	000	1437
55	75	75	32	83	22	9	000	1437
56	75	75	32	83	22	9	000	1437
57	75	75	32	83	22	9	000	1437
58	75	75	32	83	22	9	000	1437
59	75	75	32	83	22	9	000	1437
60	75	75	32	83	22	9	000	1437
61	75	75	32	83	22	9	000	1437
62	75	75	32	83	22	9	000	1437
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70	75	75	32	83	22	9	000	1437
71	75	75	32	83	22	9	000	1437
72	75	75	32	83	22	9	000	1437
73	75	75	32	83	22	9	000	1437
74	75	75	32	83	22	9	000	1437
75	75	75	32	83	22	9	000	1437
76	75	75	32	83	22	9	000	1437
77	75	75	32	83	22	9	000	1437
78	75	75	32	83	22	9	000	1437
79	75	75	32	83	22	9	000	1437
80	75	75	32	83	22	9	000	1437
81	75	75	32	83	22	9	000	1437
82	75	75	32	83	22	9	000	1437
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85	75	75	32	83	22	9	000	1437
86	75	75	32	83	22	9	000	1437
87	75	75	32	83	22	9	000	1437
88	75	75	32	83	22	9	000	1437
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90	75	75	32	83	22	9	000	1437
91	75	75	32	83	22	9	000	1437
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102	75	75	32	83	22	9	000	1437
103	75	75	32	83	22	9	000	1437
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105	75	75	32	83	22	9	000	1437
106	75	75	32	83	22	9	000	1437
107	75	75	32	83	22	9	000	1437
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109	75	75	32	83	22	9	000	1437
110	75	75	32	83	22	9	000	1437
111	75	75	32	83	22	9	000	1437
112	75	75	32	83	22	9	000	1437
113	75	75	32	83	22	9	000	1437
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149	75	75	32	83	22	9	000	1437
150	75	75	32	83	22	9	000	1437
151	75	75	32	83	22	9	000	1437
152	75	75	32	83	22	9	000	1437
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156	75	75	32	83	22	9	000	1437
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164	75	75	32	83	22	9	000	1437
165	75	75	32	83	22	9	000	1437
166	75	75	32	83	22	9	000	1437
167	75	75	32	83	22	9	000	1437
168	75	75	32	83	22	9	000	1437
169	75	75	32	83	22	9	000	1437
170	75	75	32	83	22	9	000	1437
171	75	75	32	83	22	9	000	1437
172	75	75	32	83	22	9	000	1437
173	75	75	32	83	22	9	000	1437
174	75	75	32	83	22	9	000	1437
175	75	75	32	83	22	9	000	1437
176	75	75	32	83	22	9	000	1437
177	75	75	32	83</				



FRAM 1 STATION 63(1) CTD 27/APR/1979 759 GMT CODE = 1
LAT = 84.2909N LNG = 8.0522W LTER = 1 LGR = 2.
AIR TEMP = -20.5 BARCHM = 1015.4 WIND = 76.0 SPEED = 3.3

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DWHT	SOUND
0	74	74	32	25	0	0	137
1	74	74	32	25	0	0	137
2	74	74	32	25	0	0	137
3	74	74	32	25	0	0	137
4	74	74	32	25	0	0	137
5	74	74	32	25	0	0	137
6	74	74	32	25	0	0	137
7	74	74	32	25	0	0	137
8	74	74	32	25	0	0	137
9	74	74	32	25	0	0	137
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11	74	74	32	25	0	0	137
12	74	74	32	25	0	0	137
13	74	74	32	25	0	0	137
14	74	74	32	25	0	0	137
15	74	74	32	25	0	0	137
16	74	74	32	25	0	0	137
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18	74	74	32	25	0	0	137
19	74	74	32	25	0	0	137
20	74	74	32	25	0	0	137
21	74	74	32	25	0	0	137
22	74	74	32	25	0	0	137
23	74	74	32	25	0	0	137
24	74	74	32	25	0	0	137
25	74	74	32	25	0	0	137
26	74	74	32	25	0	0	137
27	74	74	32	25	0	0	137
28	74	74	32	25	0	0	137
29	74	74	32	25	0	0	137
30	74	74	32	25	0	0	137
31	74	74	32	25	0	0	137
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33	74	74	32	25	0	0	137
34	74	74	32	25	0	0	137
35	74	74	32	25	0	0	137
36	74	74	32	25	0	0	137
37	74	74	32	25	0	0	137
38	74	74	32	25	0	0	137
39	74	74	32	25	0	0	137
40	74	74	32	25	0	0	137
41	74	74	32	25	0	0	137
42	74	74	32	25	0	0	137
43	74	74	32	25	0	0	137
44	74	74	32	25	0	0	137
45	74	74	32	25	0	0	137
46	74	74	32	25	0	0	137
47	74	74	32	25	0	0	137
48	74	74	32	25	0	0	137
49	74	74	32	25	0	0	137
50	74	74	32	25	0	0	137
51	74	74	32	25	0	0	137
52	74	74	32	25	0	0	137
53	74	74	32	25	0	0	137
54	74	74	32	25	0	0	137
55	74	74	32	25	0	0	137
56	74	74	32	25	0	0	137
57	74	74	32	25	0	0	137
58	74	74	32	25	0	0	137
59	74	74	32	25	0	0	137
60	74	74	32	25	0	0	137
61	74	74	32	25	0	0	137
62	74	74	32	25	0	0	137
63	74	74	32	25	0	0	137
64	74	74	32	25	0	0	137
65	74	74	32	25	0	0	137
66	74	74	32	25	0	0	137
67							

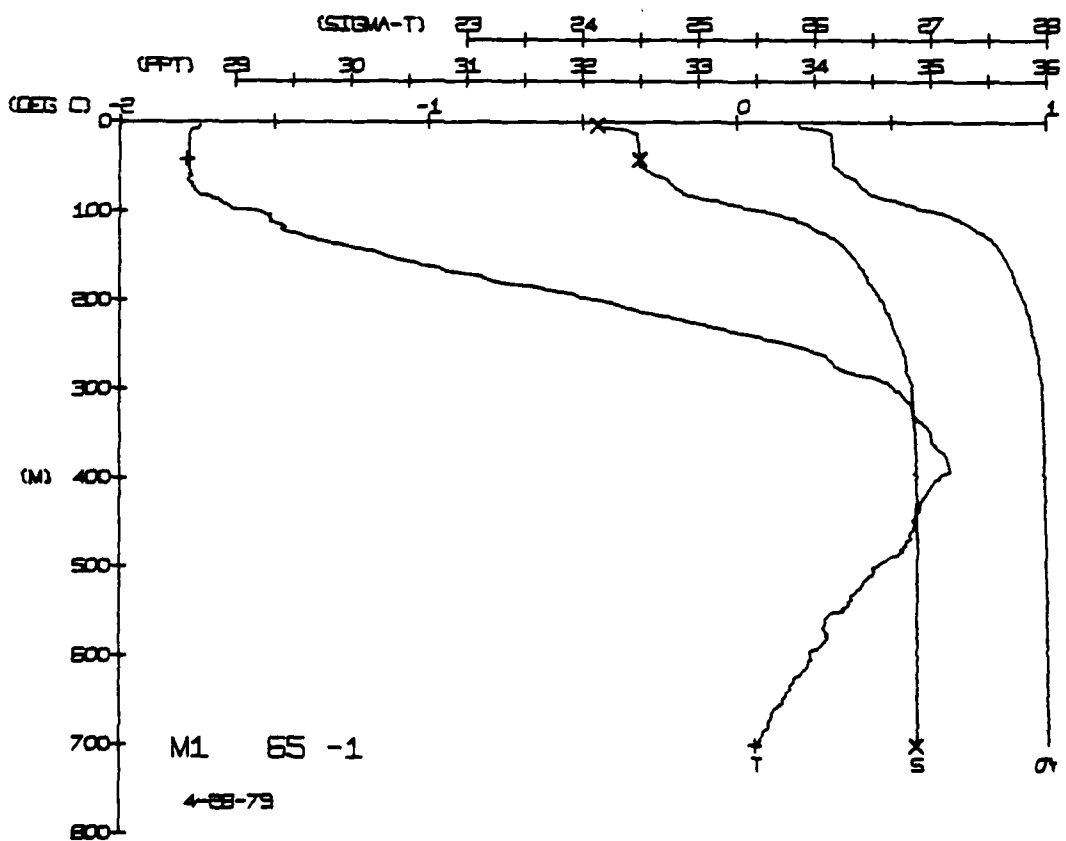
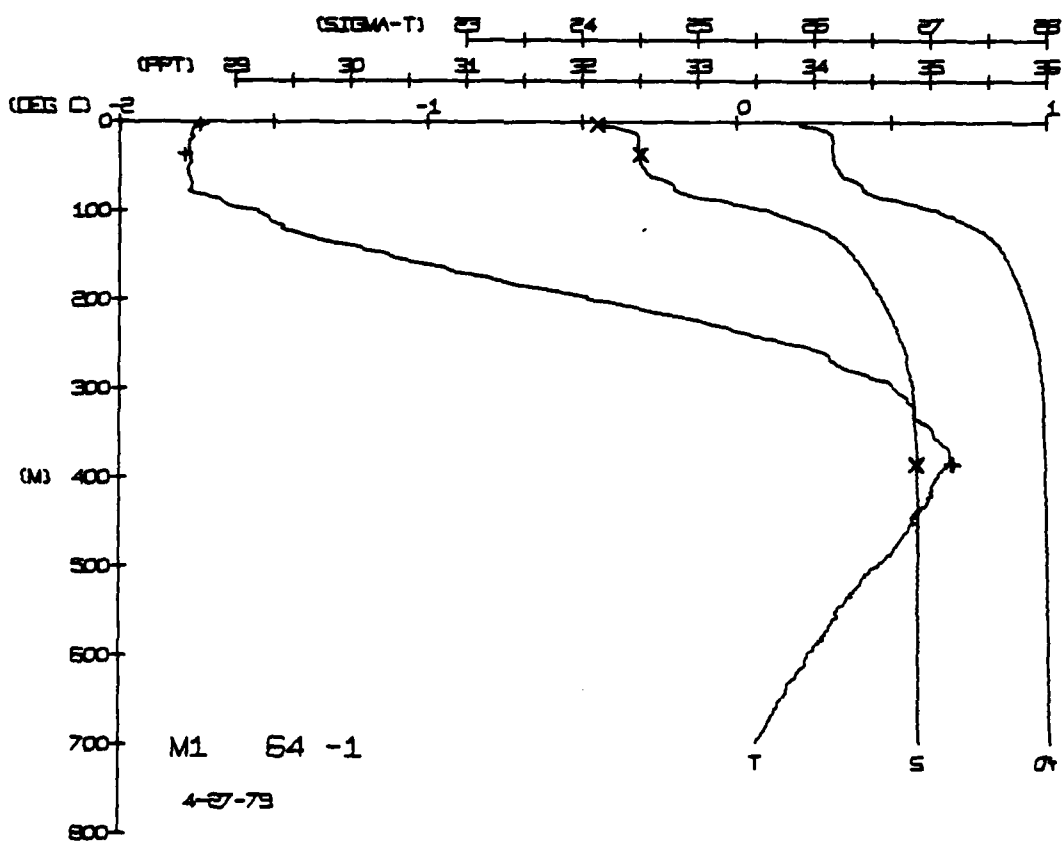


FRAM 1 STATION 64(1) CTD 27/APR/1979 1925 GMT CODE = 1
LAT = 84.2889N LNG = 8.0890W LTER = 1. LGR = 2.
AIR TEMP = -20.5 BAROM = 1022.2 WIND = 76.0 SPEED = 3.3

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DVMT	SOUND
0	74	74	33.2	87	21.4	007	1437.1
0	74	74	33.2	87	21.4	007	1437.2
0	74	74	33.2	87	21.4	007	1437.3
0	74	74	33.2	87	21.4	007	1437.4
0	74	74	33.2	87	21.4	007	1437.5
0	74	74	33.2	87	21.4	007	1437.6
0	74	74	33.2	87	21.4	007	1437.7
0	74	74	33.2	87	21.4	007	1437.8
0	74	74	33.2	87	21.4	007	1437.9
0	74	74	33.2	87	21.4	007	1438.0
0	74	74	33.2	87	21.4	007	1438.1
0	74	74	33.2	87	21.4	007	1438.2
0	74	74	33.2	87	21.4	007	1438.3
0	74	74	33.2	87	21.4	007	1438.4
0	74	74	33.2	87	21.4	007	1438.5
0	74	74	33.2	87	21.4	007	1438.6
0	74	74	33.2	87	21.4	007	1438.7
0	74	74	33.2	87	21.4	007	1438.8
0	74	74	33.2	87	21.4	007	1438.9
0	74	74	33.2	87	21.4	007	1439.0
0	74	74	33.2	87	21.4	007	1439.1
0	74	74	33.2	87	21.4	007	1439.2
0	74	74	33.2	87	21.4	007	1439.3
0	74	74	33.2	87	21.4	007	1439.4
0	74	74	33.2	87	21.4	007	1439.5
0	74	74	33.2	87	21.4	007	1439.6
0	74	74	33.2	87	21.4	007	1439.7
0	74	74	33.2	87	21.4	007	1439.8
0	74	74	33.2	87	21.4	007	1439.9
0	74	74	33.2	87	21.4	007	1440.0
0	74	74	33.2	87	21.4	007	1440.1
0	74	74	33.2	87	21.4	007	1440.2
0	74	74	33.2	87	21.4	007	1440.3
0	74	74	33.2	87	21.4	007	1440.4
0	74	74	33.2	87	21.4	007	1440.5
0	74	74	33.2	87	21.4	007	1440.6
0	74	74	33.2	87	21.4	007	1440.7
0	74	74	33.2	87	21.4	007	1440.8
0	74	74	33.2	87	21.4	007	1440.9
0	74	74	33.2	87	21.4	007	1441.0
0	74	74	33.2	87	21.4	007	1441.1
0	74	74	33.2	87	21.4	007	1441.2
0	74	74	33.2	87	21.4	007	1441.3
0	74	74	33.2	87	21.4	007	1441.4
0	74	74	33.2	87	21.4	007	1441.5
0	74	74	33.2	87	21.4	007	1441.6
0	74	74	33.2	87	21.4	007	1441.7
0	74	74	33.2	87	21.4	007	1441.8
0	74	74	33.2	87	21.4	007	1441.9
0	74	74	33.2	87	21.4	007	1442.0
0	74	74	33.2	87	21.4	007	1442.1
0	74	74	33.2	87	21.4	007	1442.2
0	74	74	33.2	87	21.4	007	1442.3
0	74	74	33.2	87	21.4	007	1442.4
0	74	74	33.2	87	21.4	007	1442.5
0	74	74	33.2	87	21.4	007	1442.6
0	74	74	33.2	87	21.4	007	1442.7
0	74	74	33.2	87	21.4	007	1442.8
0	74	74	33.2	87	21.4	007	1442.9
0	74	74	33.2	87	21.4	007	1443.0
0	74	74	33.2	87	21.4	007	1443.1
0	74	74	33.2	87	21.4	007	1443.2
0	74	74	33.2	87	21.4	007	1443.3
0	74	74	33.2	87	21.4	007	1443.4
0	74	74	33.2	87	21.4	007	1443.5
0	74	74	33.2	87	21.4	007	1443.6
0	74	74	33.2	87	21.4	007	1443.7
0	74	74	33.2	87	21.4	007	1443.8
0	74	74	33.2	87	21.4	007	1443.9
0	74	74	33.2	87	21.4	007	1444.0
0	74	74	33.2	87	21.4	007	1444.1
0	74	74	33.2	87	21.4	007	1444.2
0	74	74	33.2	87	21.4	007	1444.3
0	74	74	33.2	87	21.4	007	1444.4
0	74	74	33.2	87	21.4	007	1444.5
0	74	74	33.2	87	21.4	007	1444.6
0	74	74	33.2	87	21.4	007	1444.7
0	74	74	33.2	87	21.4	007	1444.8
0	74	74	33.2	87	21.4	007	1444.9
0	74	74	33.2	87	21.4	007	1445.0
0	74	74	33.2	87	21.4	007	1445.1
0	74	74	33.2	87	21.4	007	1445.2
0	74	74	33.2	87	21.4	007	1445.3
0	74	74	33.2	87	21.4	007	1445.4
0	74	74	33.2	87	21.4	007	1445.5
0	74	74	33.2	87	21.4	007	1445.6
0	74	74	33.2	87	21.4	007	1445.7
0	74	74	33.2	87	21.4	007	1445.8
0	74	74	33.2	87	21.4	007	1445.9
0	74	74	33.2	87	21.4	007	1446.0
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0	74	74	33.2	87	21.4	007	1446.3
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0	74	74	33.2	87	21.4	007	1447.4
0	74	74	33.2	87	21.4	007	1447.5
0	74	74	33.2	87	21.4	007	1447.6
0	74	74	33.2	87	21.4	007	1447.7
0	74	74	33.2	87	21.4	007	1447.8
0	74	74	33.2	87	21.4	007	1447.9
0	74	74	33.2	87	21.4	007	1448.0
0	74	74	33.2	87	21.4	007	1448.1
0	74	74	33.2	87	21.4	007	1448.2
0	74	74	33.2	87	21.4	007	1448.3
0	74	74	33.2	87	21.4	007	1448.4
0	74	74	33.2	87	21.4	007	1448.5
0	74	74	33.2	87	21.4	007	1448.6
0	74	74	33.2	87	21.4	007	1448.7
0	74	74	33.2	87	21.4	007	1448.8
0	74	74	33.2	87	21.4	007	1448.9
0	74	74	33.2	87	21.4	007	1449.0
0	74	74	33.2	87	21.4	007	1449.1
0	74	74	33.2	87	21.4	007	1449.2
0	74	74	33.2	87	21.4	007	1449.3
0	74	74	33.2	87	21.4	007	1449.4
0	74	74	33.2	87	21.4	007	1449.5
0	74	74	33.2	87	21.4	007	1449.6
0	74	74	33.2	87	21.4	007	1449.7
0	74	74	33.2	87	21.4	007	1449.8
0	74	74	33.2	87	21.4	007	1449.9
0	74	74	33.2	87	21.4	007	1450.0
0	74	74	33.2	87	21.4	007	1450.1
0	74	74	33.2	87	21.4	007	1450.2
0	74	74	33.2	87	21.4	007	1450.3
0	74	74	33.2	87	21.4	007	1450.4
0	74	74	33.2	87	21.4	007	1450.5
0	74	74	33.2	87	21.4	007	1450.6
0	74	74	33.2	87	21.4	007	1450.7
0	74	74	33.2	87	21.4	007	1450.8
0	74	74	33.2	87	21.4	007	1450.9
0	74	74	33.2	87	21.4	007	1451.0
0	74	74	33.2	87	21.4	007	1451.1
0	74	74	33.2	87	21.4	007	1451.2
0	74	74	33.2	87	21.4	007	1451.3
0	74	74	33.2	87	21.4	007	1451.4
0	74	74	33.2	87	21.4	007	1451.5
0	74	74	33.2	87	21.4	007	1451.6
0	74	74	33.2	87	21.4	007	1451.7
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0	74	74	33.2	87	21.4	007	1451.9
0	74	74	33.2	87	21.4	007	1452.0
0	74	74	33.2	87	21.4	007	1452.1
0	74	74	33.2	87	21.4	007	1452.2
0	74	74	33.2	87	21.4	007	1452.3
0	74	74	33.2	87	21.4	007	1452.4
0	74	74	33.2	87	21.4	007	1452.5
0	74	74	33.2	87	21.4	007	1452.6
0	74	74	33.2	87	21.4	007	1452.7
0	74	74	33.2	87	21.4	007	1452.8
0	74	74	33.2	87	21.4	007	1452.9
0	74	74	33.2	87	21.4	007	1453.0
0	74	74	33.2	87	21.4	007	1453.1
0	74	74	33.2	87	21.4	007	1453.2
0	74	74	33.2	87	21.4	007	1453.3
0	74	74	33.2	87	21.4	007	1453.4
0	74	74	33.2	87	21.4	007	1453.5
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0	74	74	33.2	87	21.4	007	1453.7
0	74	74	33.2	87	21.4	007	1453.8
0	74	74	33.2	87	21.4	007	1453.9
0	74	74	33.2	87	21.4	007	1454.0
0	74	74	33.2	87	21.4	007	1454.1
0	74	74	33.2	87	21.4	007	1454.2
0	74	74	33.2	87	21.4	007	1454.3
0	74	74	33.2	87	21.4	007	1454.4
0	74	74	33.2	87	21.4	007	1454.5
0	74	74	33.2	87	21.4	007	1454.6
0	74	74	33.2	87	21.4	007	1454.7
0	74	74	33.2	87	21.4	007	1454.8
0	74	74	33.2	87	21.4	007	1454.9
0	74	74	33.2	87	21.4	007	1455.0
0	74	74	33.2	87	21.4	007	1455.1
0	74	7					

FRAM 1 STATION 65(1) CTD 28/APR/1979 719 GMT CODE = 1
LAT = 84.2780N LNG = 8 0750W LTR = 0 LGR = 0
AIR TEMP = -22.2 BAROM = 1028.7 WIND = 316 0 SPEED = 9.3

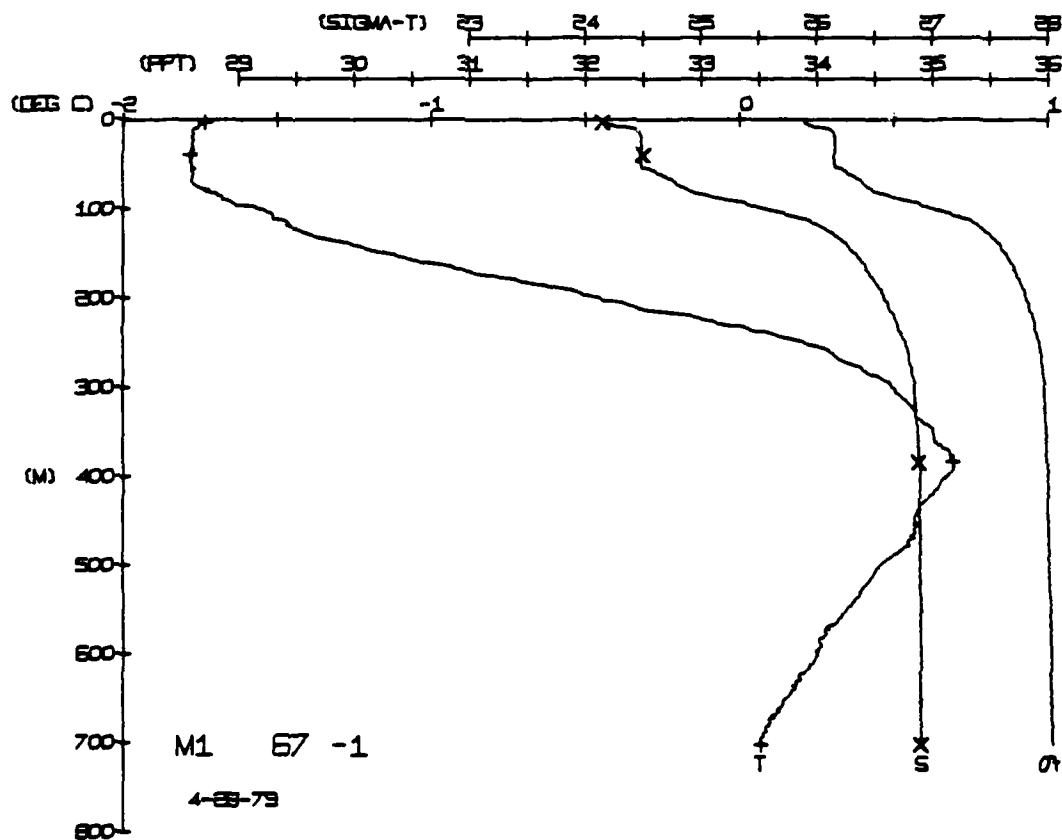
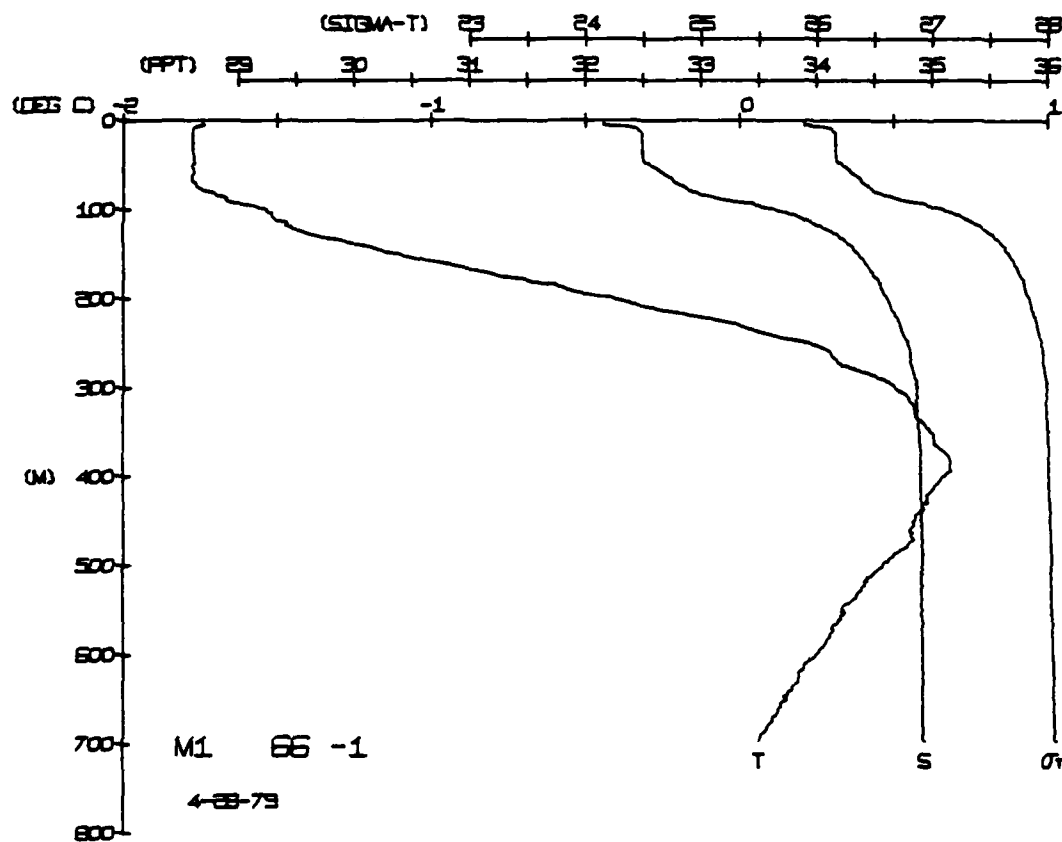
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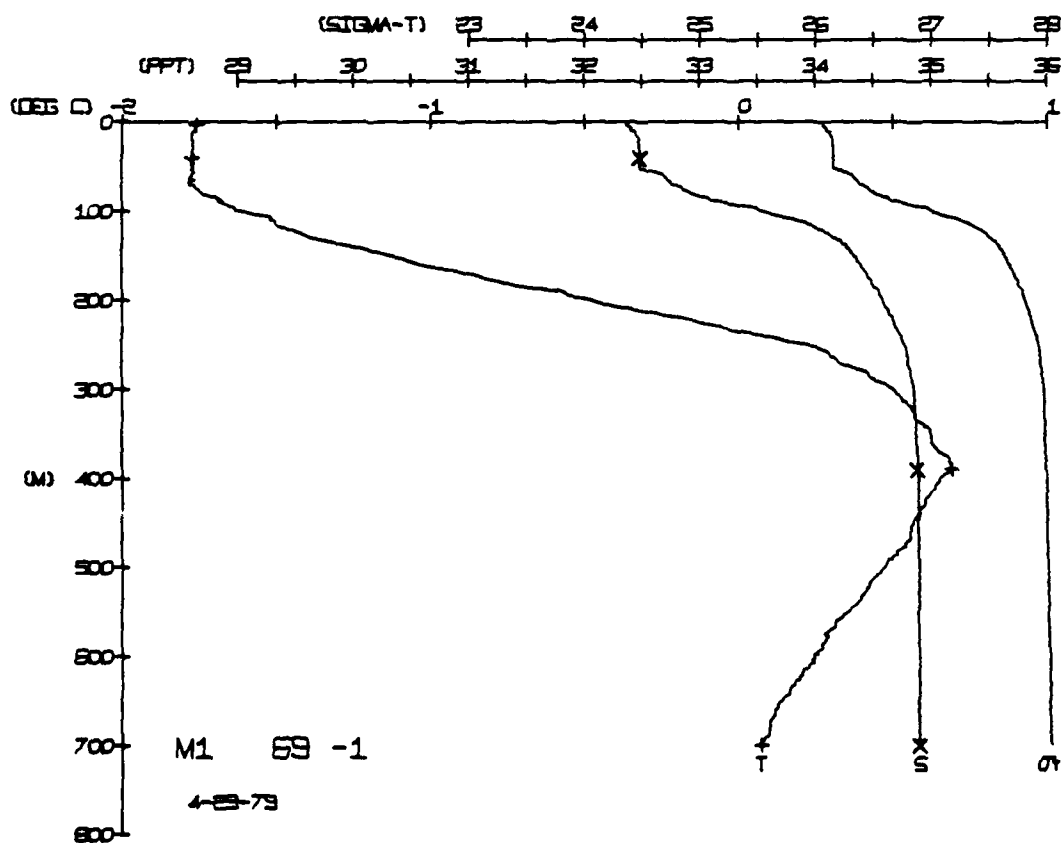
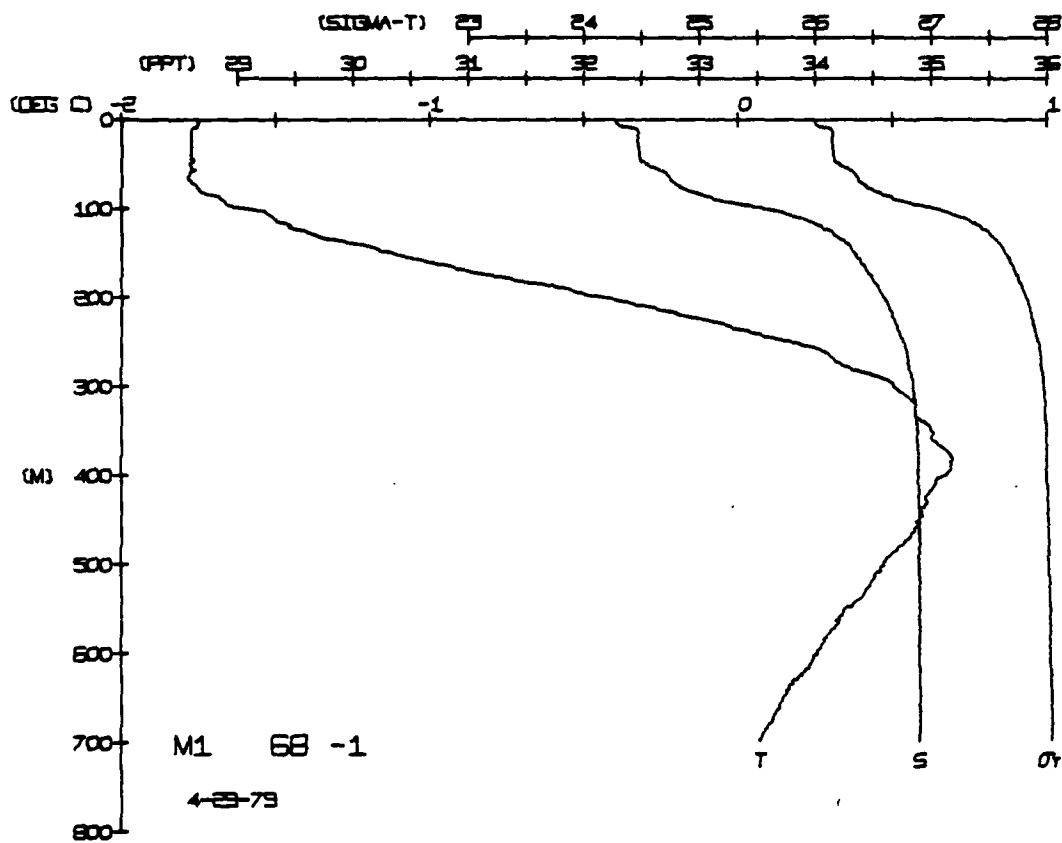
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FRAM 1 STATION 69(1) CTD 29/APR/1979 1857 GMT CODE = 1
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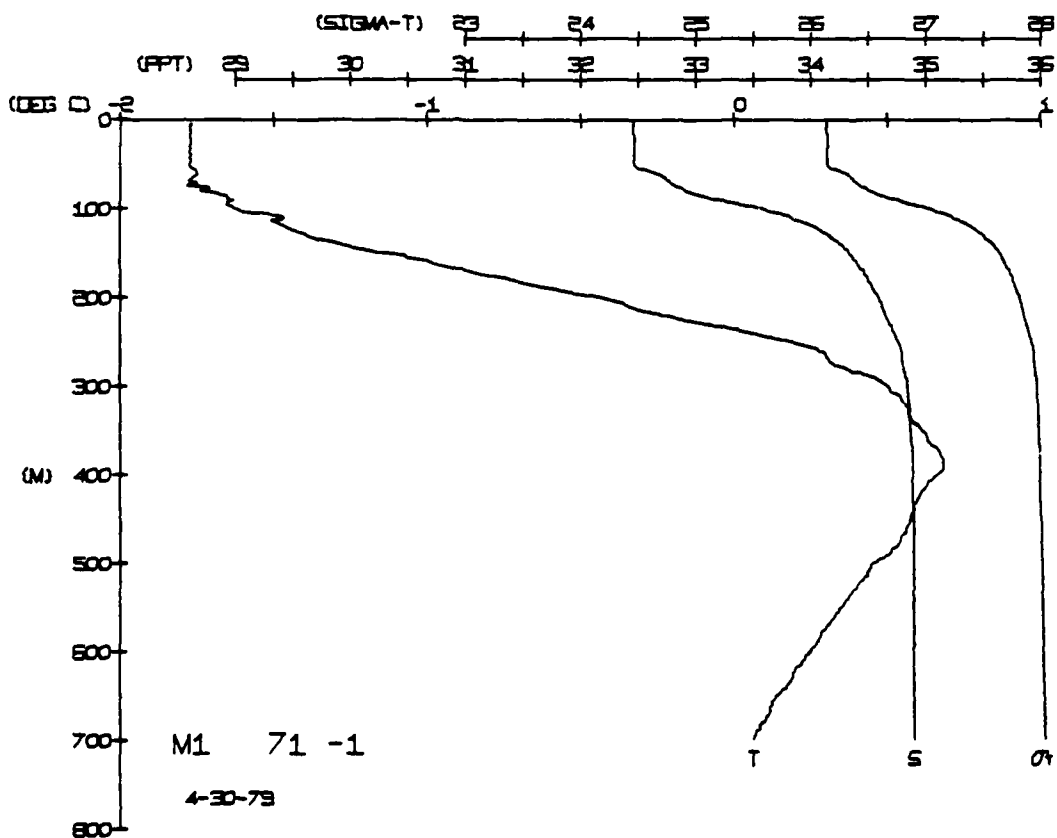
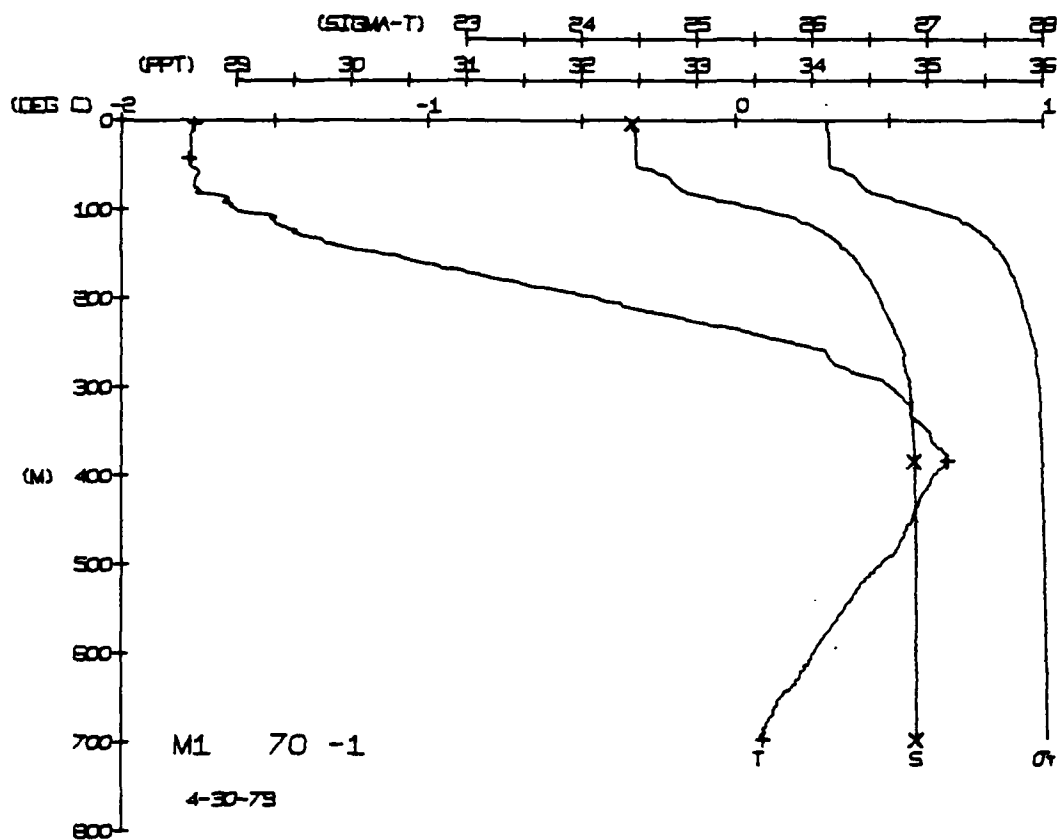
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18	77	77	32	26	9	000	1437
19	77	77	32	26	9	000	1437
20	77	77	32	26	9	000	1437
21	77	77	32	26	9	000	1437
22	77	77	32	26	9	000	1437
23	77	77	32	26	9	000	1437
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26	77	77	32	26	9	000	1437
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39	77	77	32	26	9	000	1437
40	77	77	32	26	9	000	1437
41	77	77	32	26	9	000	1437
42	77	77	32	26	9	000	1437
43	77	77	32	26	9	000	1437
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46	77	77	32	26	9	000	1437
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50	77	77	32	26	9	000	1437
51	77	77	32	26	9	000	1437
52	77	77	32	26	9	000	1437
53	77	77	32	26	9	000	1437
54	77	77	32	26	9	000	1437
55	77	77	32	26	9	000	1437
56	77	77	32	26	9	000	1437
57	77	77	32	26	9	000	1437
58	77	77	32	26	9	000	1437
59	77	77	32	26	9	000	1437
60	77	77	32	26	9	000	1437
61	77	77	32	26	9	000	1437
62	77	77	32	26	9	000	1437
63	77	77	32	26	9	000	1437

DEPTH	TEMP	SALIN
3 4	-1 76	32 48
40 6	-1 77	34 88
390 1	0 69	34 90
699 6	0 08	



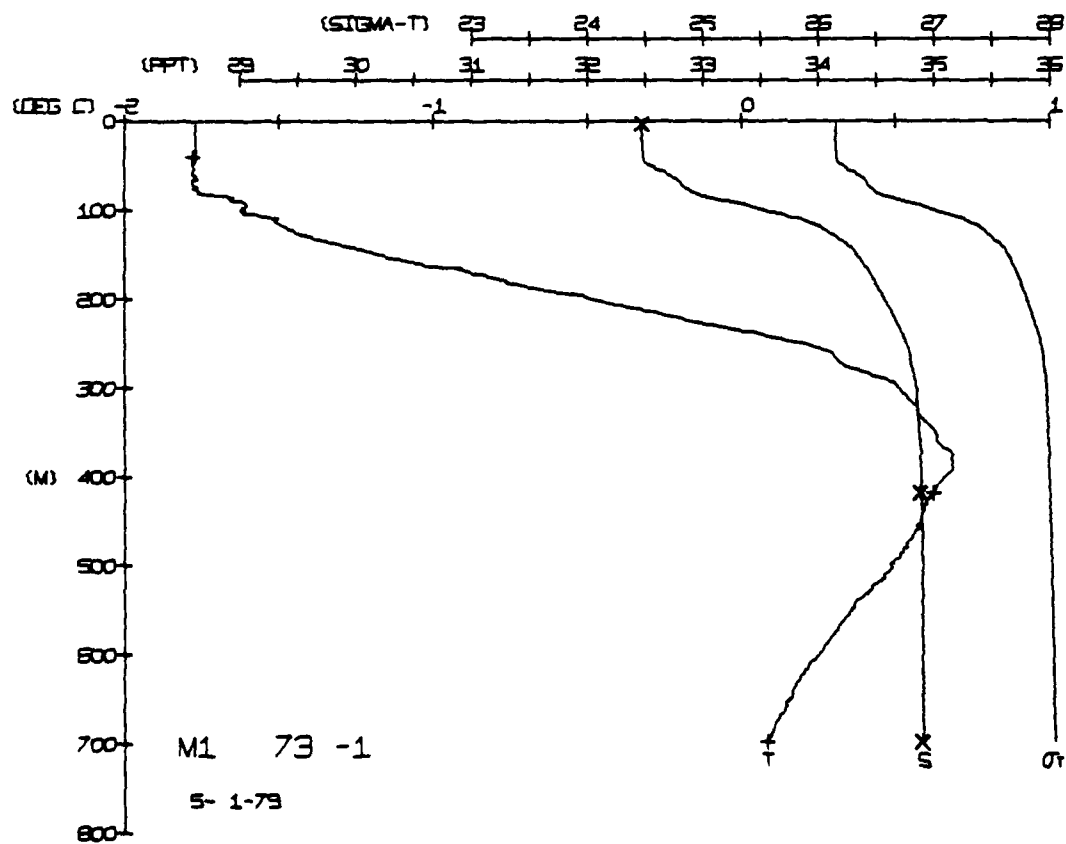
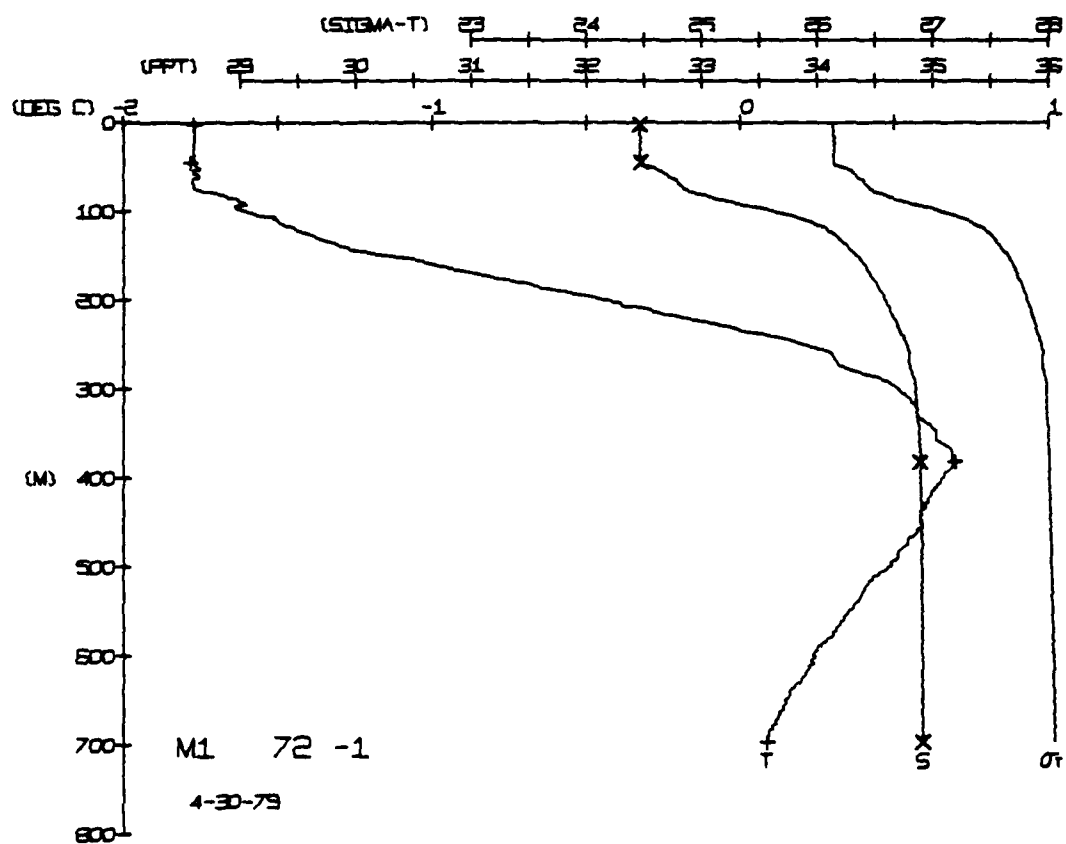
FRAM 1 STATION 71(1) CTD 30/APR/1979 1301 GMT CODE = 1
LAT = 84 1884N LNG = 7 9153W LTR = 4 LGR = 11
AIR TEMP = -21 0 BAROM = 1037 7 WIND = 283 0 SPEED = 4.7

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYNT	SOUND	DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYNT	SOUND
0	33.00	77	32.44	26.12	189	000	1437	0	33.00	77	32.44	26.12	189	000	1437
3	33.00	77	32.44	26.12	189	000	1437	3	33.00	77	32.44	26.12	189	000	1437
5	33.00	77	32.44	26.12	189	000	1437	5	33.00	77	32.44	26.12	189	000	1437
10	33.00	77	32.44	26.12	189	000	1437	10	33.00	77	32.44	26.12	189	000	1437
15	33.00	77	32.44	26.12	189	000	1437	15	33.00	77	32.44	26.12	189	000	1437
20	33.00	77	32.44	26.12	189	000	1437	20	33.00	77	32.44	26.12	189	000	1437
25	33.00	77	32.44	26.12	189	000	1437	25	33.00	77	32.44	26.12	189	000	1437
30	33.00	77	32.44	26.12	189	000	1437	30	33.00	77	32.44	26.12	189	000	1437
35	33.00	77	32.44	26.12	189	000	1437	35	33.00	77	32.44	26.12	189	000	1437
40	33.00	77	32.44	26.12	189	000	1437	40	33.00	77	32.44	26.12	189	000	1437
45	33.00	77	32.44	26.12	189	000	1437	45	33.00	77	32.44	26.12	189	000	1437
50	33.00	77	32.44	26.12	189	000	1437	50	33.00	77	32.44	26.12	189	000	1437
55	33.00	77	32.44	26.12	189	000	1437	55	33.00	77	32.44	26.12	189	000	1437
60	33.00	77	32.44	26.12	189	000	1437	60	33.00	77	32.44	26.12	189	000	1437
65	33.00	77	32.44	26.12	189	000	1437	65	33.00	77	32.44	26.12	189	000	1437
70	33.00	77	32.44	26.12	189	000	1437	70	33.00	77	32.44	26.12	189	000	1437
75	33.00	77	32.44	26.12	189	000	1437	75	33.00	77	32.44	26.12	189	000	1437
80	33.00	77	32.44	26.12	189	000	1437	80	33.00	77	32.44	26.12	189	000	1437
85	33.00	77	32.44	26.12	189	000	1437	85	33.00	77	32.44	26.12	189	000	1437
90	33.00	77	32.44	26.12	189	000	1437	90	33.00	77	32.44	26.12	189	000	1437
95	33.00	77	32.44	26.12	189	000	1437	95	33.00	77	32.44	26.12	189	000	1437
100	33.00	77	32.44	26.12	189	000	1437	100	33.00	77	32.44	26.12	189	000	1437
105	33.00	77	32.44	26.12	189	000	1437	105	33.00	77	32.44	26.12	189	000	1437
110	33.00	77	32.44	26.12	189	000	1437	110	33.00	77	32.44	26.12	189	000	1437
115	33.00	77	32.44	26.12	189	000	1437	115	33.00	77	32.44	26.12	189	000	1437
120	33.00	77	32.44	26.12	189	000	1437	120	33.00	77	32.44	26.12	189	000	1437
125	33.00	77	32.44	26.12	189	000	1437	125	33.00	77	32.44	26.12	189	000	1437
130	33.00	77	32.44	26.12	189	000	1437	130	33.00	77	32.44	26.12	189	000	1437
135	33.00	77	32.44	26.12	189	000	1437	135	33.00	77	32.44	26.12	189	000	1437
140	33.00	77	32.44	26.12	189	000	1437	140	33.00	77	32.44	26.12	189	000	1437
145	33.00	77	32.44	26.12	189	000	1437	145	33.00	77	32.44	26.12	189	000	1437
150	33.00	77	32.44	26.12	189	000	1437	150	33.00	77	32.44	26.12	189	000	1437
155	33.00	77	32.44	26.12	189	000	1437	155	33.00	77	32.44	26.12	189	000	1437
160	33.00	77	32.44	26.12	189	000	1437	160	33.00	77	32.44	26.12	189	000	1437
165	33.00	77	32.44	26.12	189	000	1437	165	33.00	77	32.44	26.12	189	000	1437
170	33.00	77	32.44	26.12	189	000	1437	170	33.00	77	32.44	26.12	189	000	1437
175	33.00	77	32.44	26.12	189	000	1437	175	33.00	77	32.44	26.12	189	000	1437
180	33.00	77	32.44	26.12	189	000	1437	180	33.00	77	32.44	26.12	189	000	1437
185	33.00	77	32.44	26.12	189	000	1437	185	33.00	77	32.44	26.12	189	000	1437
190	33.00	77	32.44	26.12	189	000	1437	190	33.00	77	32.44	26.12	189	000	1437
195	33.00	77	32.44	26.12	189	000	1437	195	33.00	77	32.44	26.12	189	000	1437
200	33.00	77	32.44	26.12	189	000	1437	200	33.00	77	32.44	26.12	189	000	1437
205	33.00	77	32.44	26.12	189	000	1437	205	33.00	77	32.44	26.12	189	000	1437
210	33.00	77	32.44	26.12	189	000	1437	210	33.00	77	32.44	26.12	189	000	1437
215	33.00	77	32.44	26.12	189	000	1437	215	33.00	77	32.44	26.12	189	000	1437
220	33.00	77	32.44	26.12	189	000	1437	220	33.00	77	32.44	26.12	189	000	1437
225	33.00	77	32.44	26.12	189	000	1437	225	33.00	77	32.44	26.12	189	000	1437
230	33.00	77	32.44	26.12	189	000	1437	230	33.00	77	32.44	26.12	189	000	1437
235	33.00	77	32.44	26.12	189	000	1437	235	33.00	77	32.44	26.12	189	000	1437
240	33.00	77	32.44	26.12	189	000	1437	240	33.00	77	32.44	26.12	189	000	1437
245	33.00	77	32.44	26.12	189	000	1437	245	33.00	77	32.44	26.12	189	000	1437
250	33.00	77	32.44	26.12	189	000	1437	250	33.00	77	32.44	26.12	189	000	1437
255	33.00	77	32.44	26.12	189	000	1437	255	33.00	77	32.44	26.12	189	000	1437
260	33.00	77	32.44	26.12	189	000	1437	260	33.00	77	32.44	26.12	189	000	1437
265	33.00	77	32.44	26.12	189	000	1437	265	33.00	77	32.44	26.12	189	000	1437
270	33.00	77	32.44	26.12	189	000	1437	270	33.00	77	32.44	26.12	189	000	1437
275	33.00	77	32.44	26.12	189	000	1437	275	33.00	77	32.44	26.12	189	000	1437
280	33.00	77	32.44	26.12	189	000	1437	280	33.00	77	32.44	26.12	189	000	1437
285	33.00	77	32.44	26.12	189	000	1437	285	33.00	77	32.44	26.12	189	000	1437
290	33.00	77	32.44	26.12	189	000	1437	290	33.00	77	32.44	26.12	189	000	1437
295	33.00	77	32.44	26.12	189	000	1437	295	33.00	77	32.44	26.12	189	000	1437
300	33.00	77	32.44	26.12	189	000	1437	300	33.00	77	32.44	26.12	189	000	1437
305	33.00	77	32.44	26.12	189	000	1437	305	33.00	77	32.44	26.12	189	000	1437
310	33.00	77	32.44	26.12	189	000	1437	310	33.00	77	32.44	26.12	189	000	1437
315	33.00	77	32.44	26.12	189	000	1437	315	33.00	77	32.44	26.12	189	000	1437
320	33.00	77	32.44	26.12	189	000	1437	320	33.00	77	32.44	26.12	189	000	1437
325	33.00	77	32.44	26.12	189	000	1437	325	33.00	77	32.44	26.12	189	000	1437
330	33.00	77	32.44	26.12	189	000	1437	330	33.00	77	32.44	26.12	189	000	1437
335	33.00	77	32.44	26.12	189	000	1437	335	33.00	77	32.44	26.12	189	000	1437
340	33.00	77	32.44	26.12	189	000	1437	340	33.00	77	32.44	26.12	189	000	1437
345	33.00	77	32.44	26.12	189	000	1437	345	33.00	77	32.44	26.12	189	000	1437
350	33.00	77	32.44	26.12	189	000	1437	350	33.00	77	32.44	26.12	189	000	1437
355	33.00	77	32.44	26.12	189	000	1437	355	33.00	77	32.44	26.12	189	000	1437
360	33.00	77	32.44	26.12	189	000	1437	360	33.00	77	32.44	26.12	189	000	1437
365	33.00	77	32.44	26.12	189	000	1437	365	33.00	77	32.44	26.12	189	000	1437
370	33.00	77	32.44	26.12	189	000	1437	370	33.00	77	32.44	26.12	189	000	1437
375	33.00	77	32.44	26.12	189	000	1437	375	33.00	77	32.44	26.12	189	000	1437
380	33.00	77	32.44	26.12	189	000	1437	380	33.00	77	32.44	26.12	189	000	1437
385	33.00	77	32.44	26.12	189	000	1437	385	33.00	77	32.44	26.12	189	000	1437
390	33.00	77	32.44	26.12	189	000	1437	390	33.00	77	32.44	26.12	189	000	1437
395	33.00	77	32.44	26.12	189	000	1437	395	33.00	77	32.44	26.12	189	000	1437
400	33.00	77	32.44	26.12	189	000	1437	400	33.00	77	32.44	26.12	189	000	1437
405	33.00	77	32.44	26.12	189	000	1437	405	33.00	77	32.44	26.12	189	000	1437
410	33.00	77	32.44	26.12	189	000	1437	410	33.00	77	32.44	26.12	189	000	1437
415	33.00	77	32.44	26.12	189	000	1437	415	33.00	77	32.44	26.12	189	000	1437
420	33.00	77	32.44	26.12	189	000	1437	420							



FRAM 1 STATION 73(1) CTD 1/MAY/1979 707 GMT CODE = 1
LAT = 84 1424N LNG = 7 5361W LTER = 0 LGR = 1
AIR TEMP = -18.9 BAROM = 1026.5 WIND = 300.0 SPEED = 7.2

[illegible]



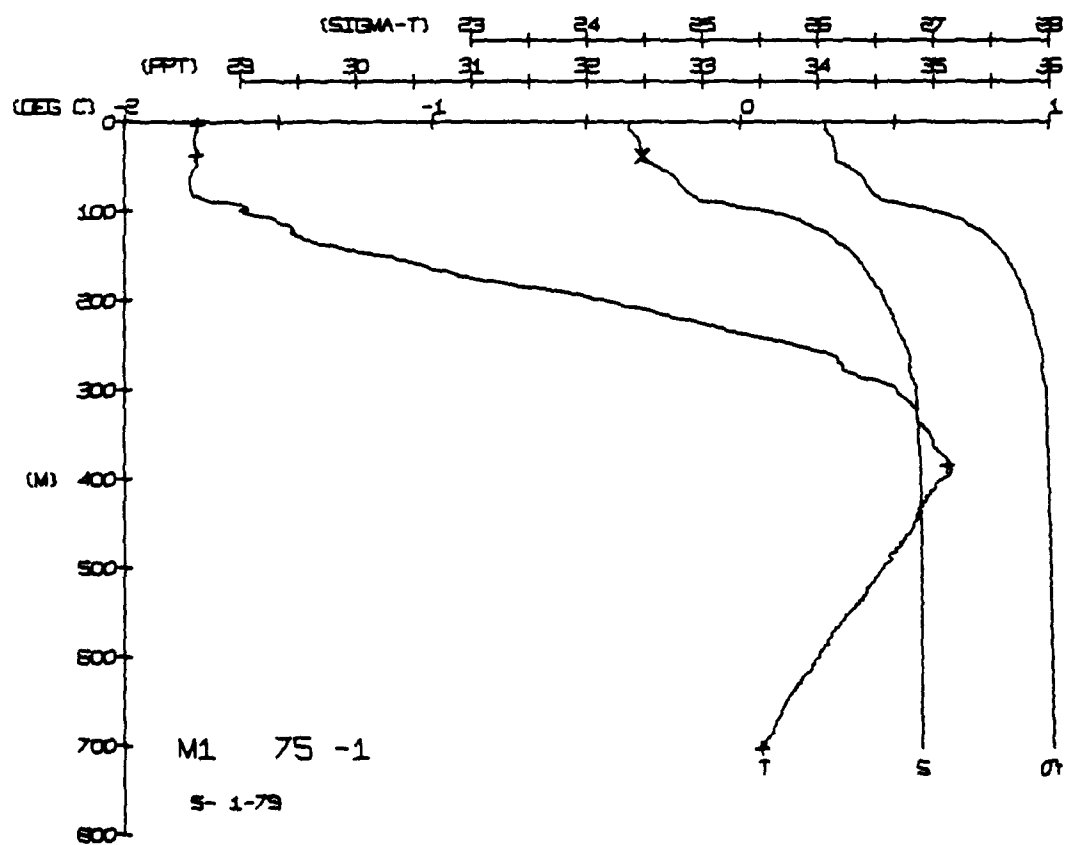
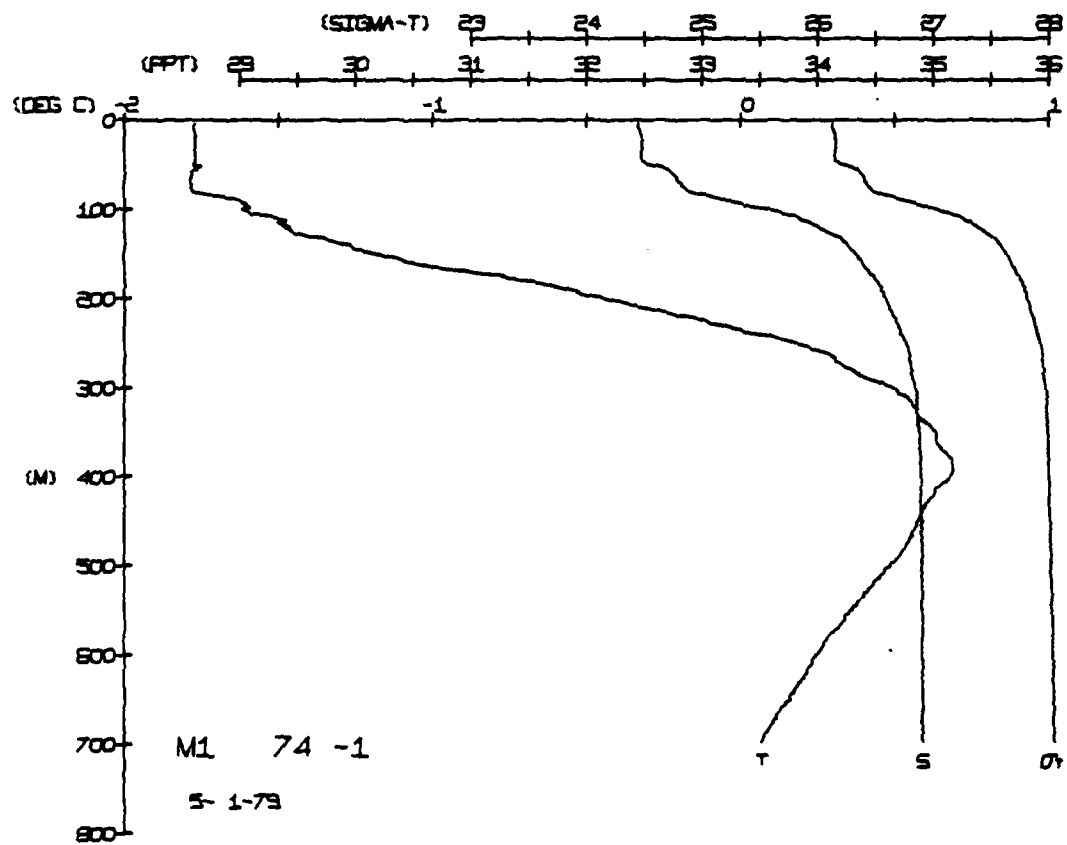
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FRAM 1 STATION 75(1) CTD 1/MAY/1979 1700 GMT CODE = 1
LAT = 84 0991N LNG = 7 3065W LTER = 1 LGR = 2
AIR TEMP = BARDM = 1024 5 WIND = 303 0 SPEED = 9 1

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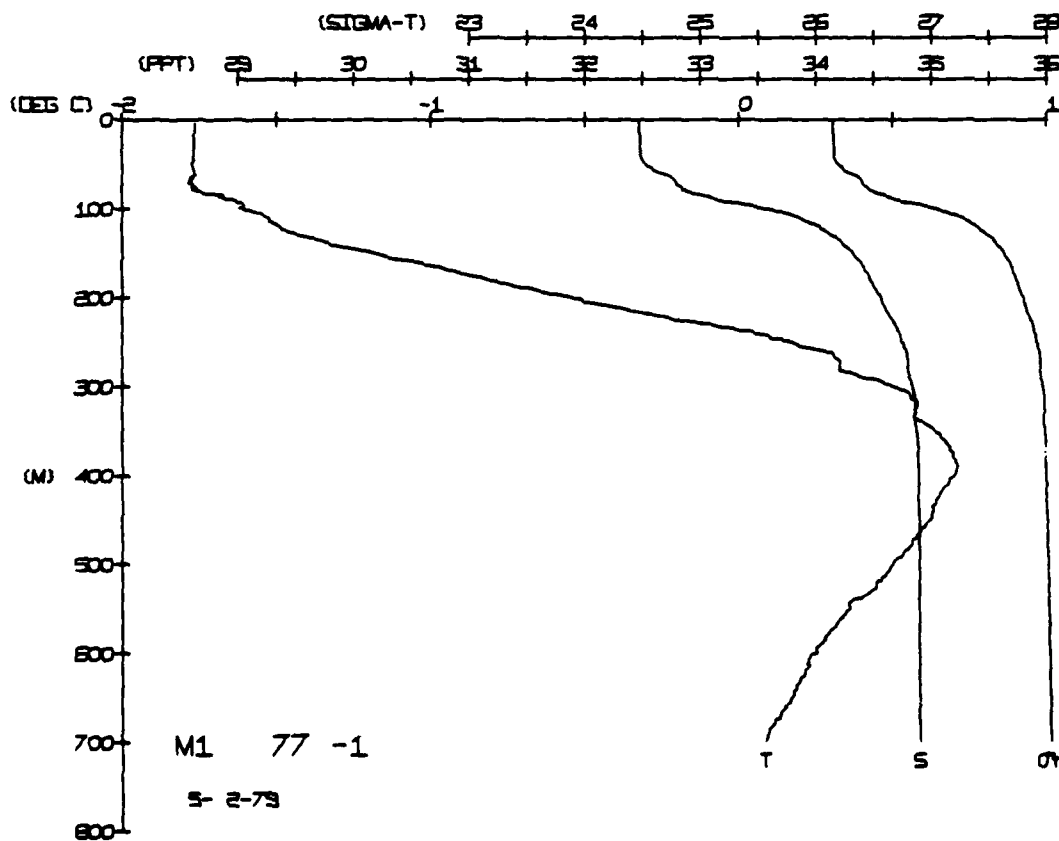
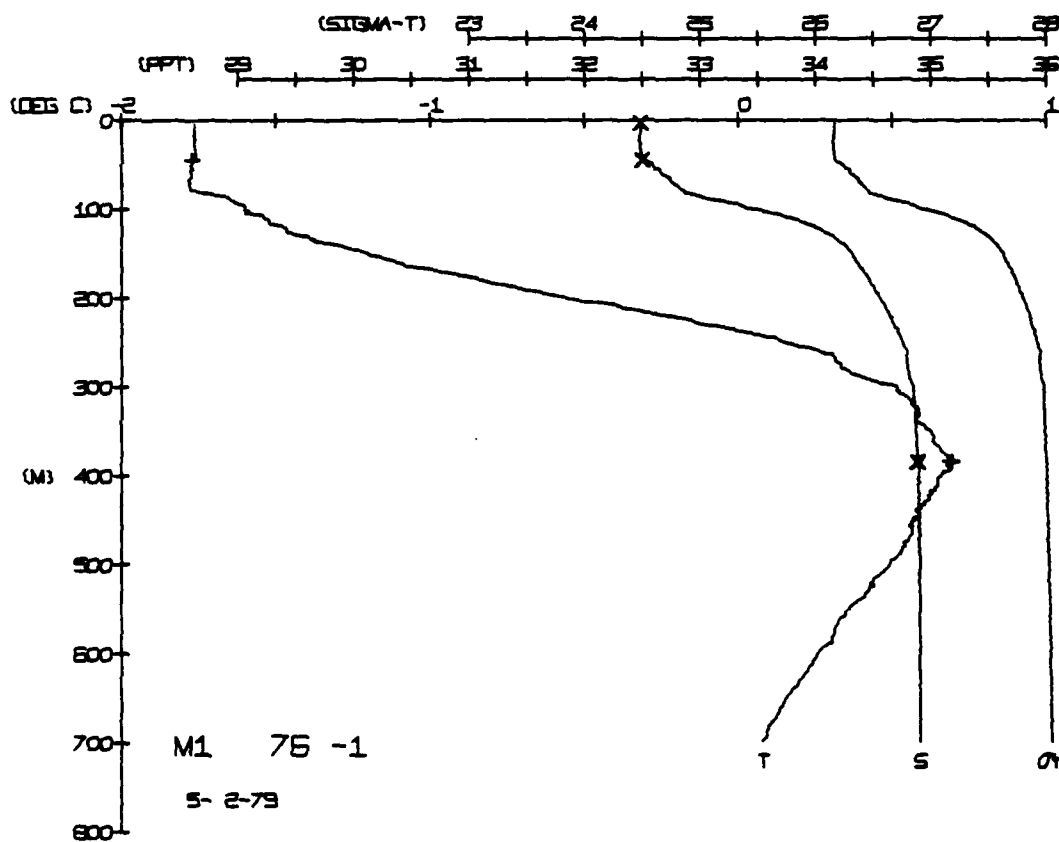
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2	76	76	32	26	19	0	137
3	76	76	32	26	19	0	137
4	76	76	32	26	19	0	137
5	76	76	32	26	19	0	137
6	76	76	32	26	19	0	137
7	76	76	32	26	19	0	137
8	76	76	32	26	19	0	137
9	76	76	32	26	19	0	137
10	76	76	32	26	19	0	137
11	76	76	32	26	19	0	137
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13	76	76	32	26	19	0	137
14	76	76	32	26	19	0	137
15	76	76	32	26	19	0	137
16	76	76	32	26	19	0	137
17	76	76	32	26	19	0	137
18	76	76	32	26	19	0	137
19	76	76	32	26	19	0	137
20	76	76	32	26	19	0	137
21	76	76	32	26	19	0	137
22	76	76	32	26	19	0	137
23	76	76	32	26	19	0	137
24	76	76	32	26	19	0	137
25	76	76	32	26	19	0	137
26	76	76	32	26	19	0	137
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31	76	76	32	26	19	0	137
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35	76	76	32	26	19	0	137
36	76	76	32	26	19	0	137
37	76	76	32	26	19	0	137
38	76	76	32	26	19	0	137
39	76	76	32	26	19	0	137
40	76	76	32	26	19	0	137
41	76	76	32	26	19	0	137
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47	76	76	32	26	19	0	137
48	76	76	32	26	19	0	137
49	76	76	32	26	19	0	137
50	76	76	32	26	19	0	137
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60	76	76	32	26	19	0	137
61	76	76	32	26	19	0	137
62	76	76	32	26	19	0	137
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66	76	76	32	26	19	0	137
67	76	76	32	26	19	0	137
68	76	76	32	26	19	0	137
69	76	76	32	26	19	0	137
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78	76	76	32	26	19	0	137
79	76	76	32	26	19	0	137
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90	76	76	32	26	19	0	137
91	76	76	32	26	19	0	137
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94	76	76	32	26	19	0	137
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96	76	76	32	26	19	0	137
97	76	76	32	26	19	0	137
98	76	76	32	26	19	0	137
99	76	76	32	26	19	0	137
100	76	76	32	26	19	0	137

32 48



FRAM 1 STATION 77(1) CTD 2/MAY/1979 1338 GMT CODE = 1
LAT = 84.0390N LNG = 7.2701W LTR = 0 LGR = 0
AIR TEMP = -15.4 BAROM = 1032.9 WIND = 343.0 SPEED = 7.3

[illegible]



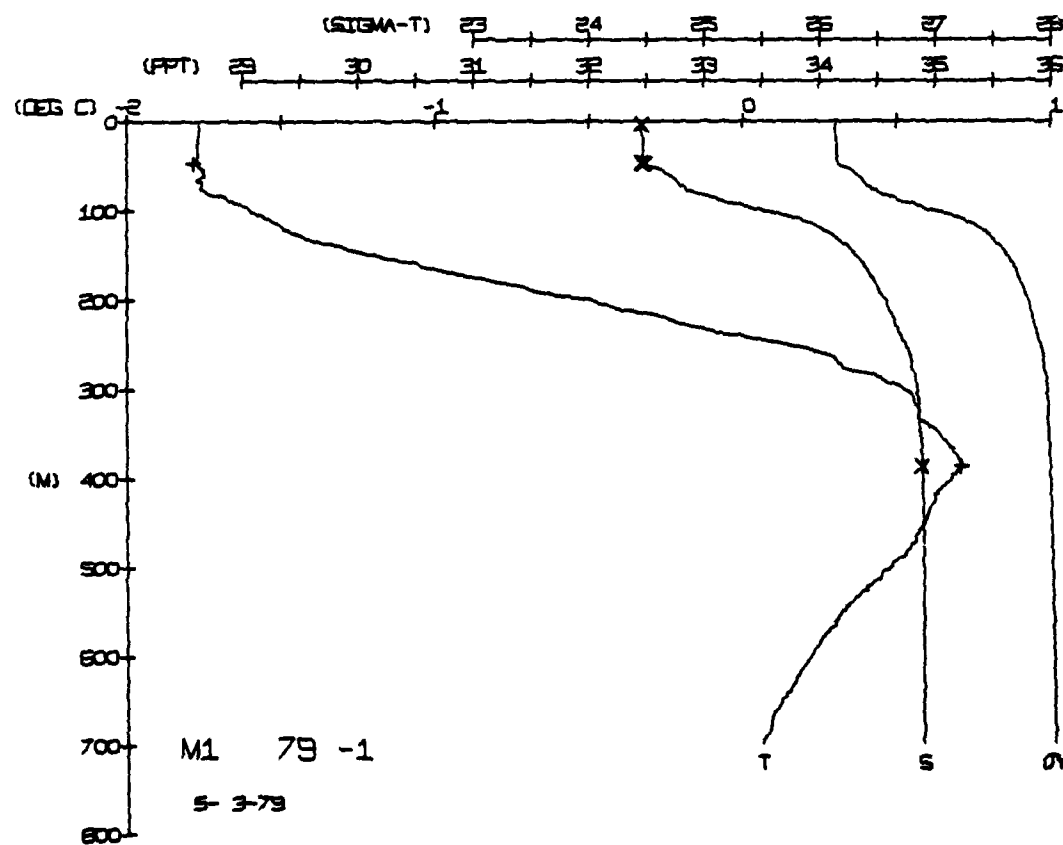
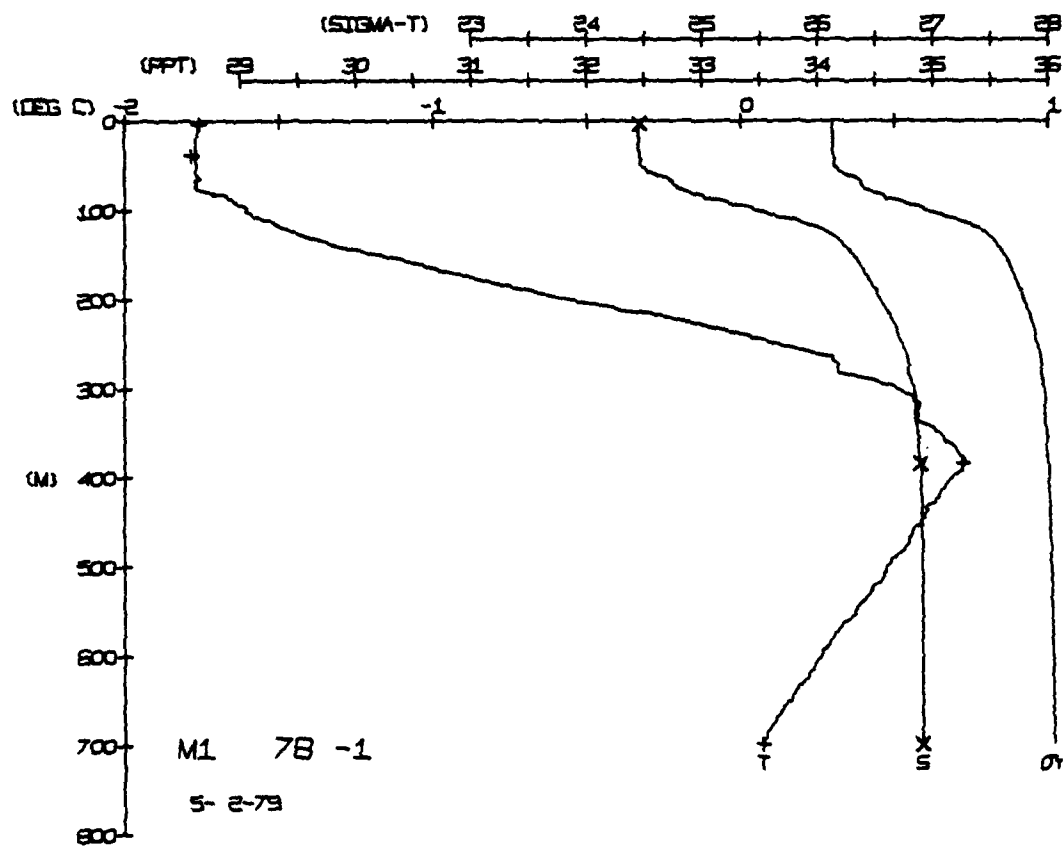
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AIR TEMP = -15.4 BAROM = 1037.3 WIND = 343.0 SPEED = 7.3

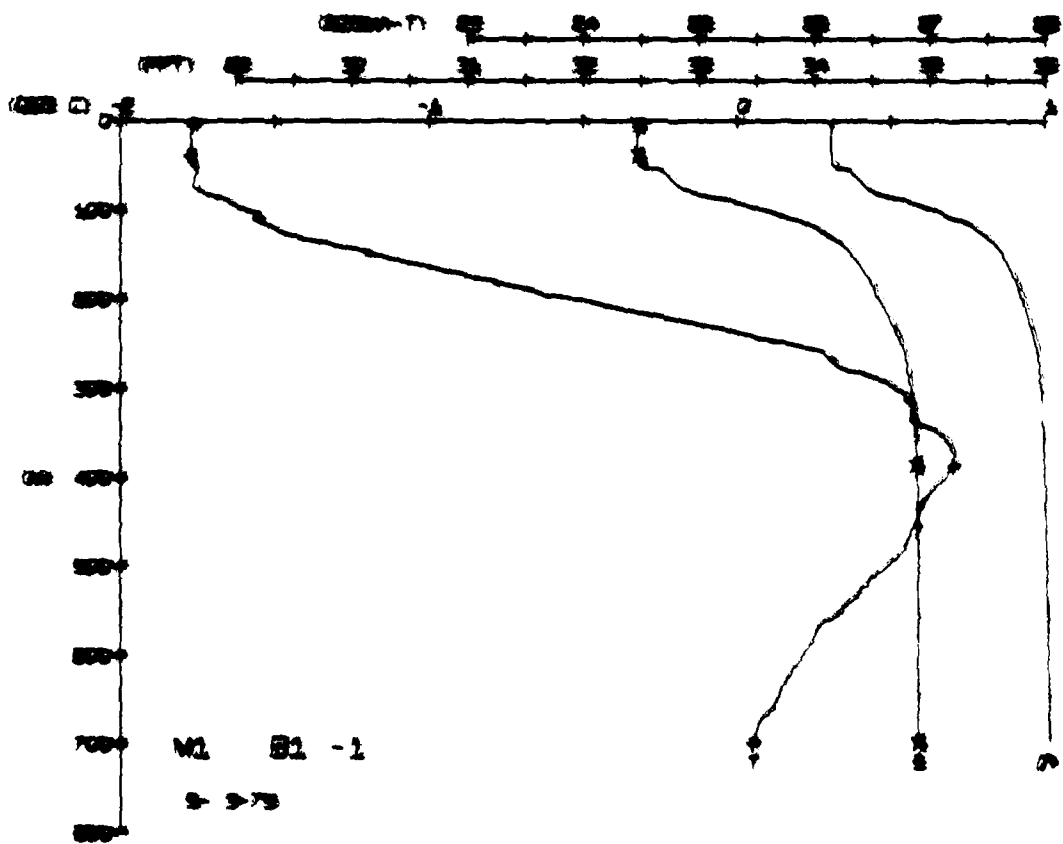
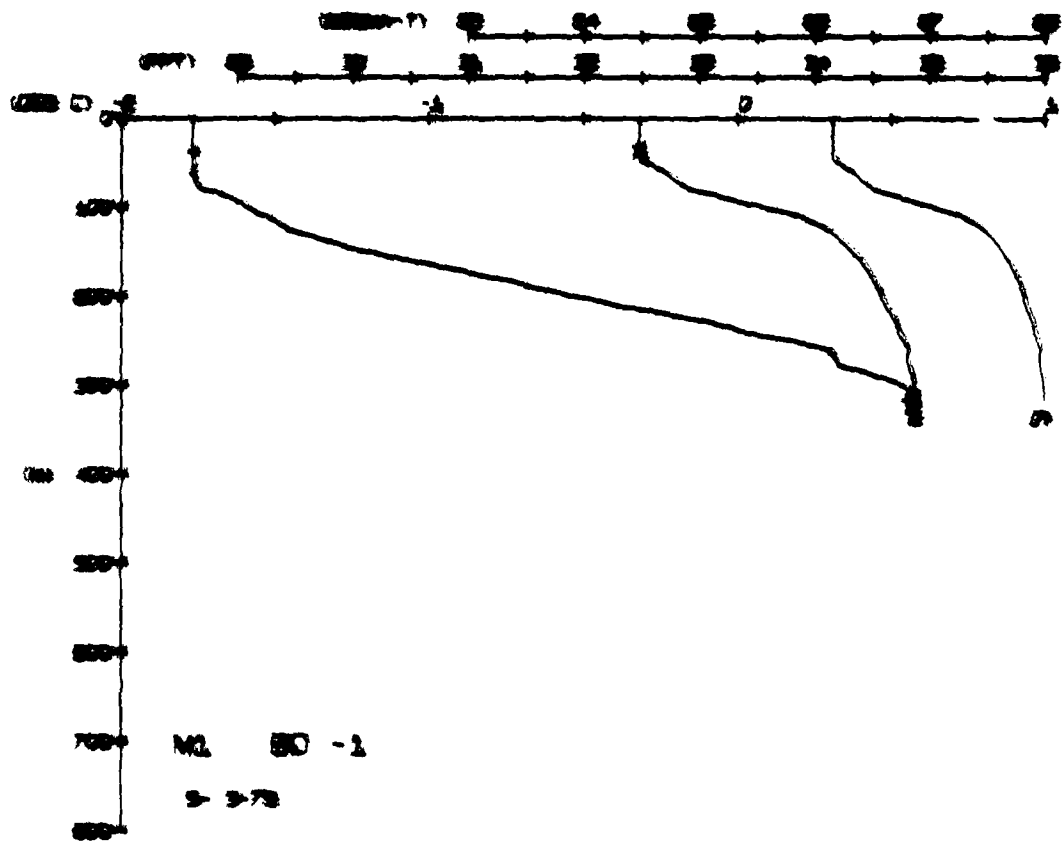
DEPTH	TEMP	PTMP	SALIN	SIG T	SPVCL	DYHNT	SOUND
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0	76	76	32	26	14	006	1437.5
0	76	76	32	26	14	009	1437.6
0	76	76	32	26	14	019	1437.7
10	76	76	32	26	14	039	1437.8
15	76	76	32	26	14	048	1437.9
20	76	76	32	26	14	057	1438.0
25	76	76	32	26	14	067	1438.1
30	76	76	32	26	14	076	1438.2
35	76	76	32	26	14	085	1438.3
40	76	76	32	26	14	094	1438.4
45	76	76	32	26	14	104	1438.5
50	76	76	32	26	14	112	1438.6
55	76	76	32	26	14	121	1438.7
60	76	76	32	26	14	131	1438.8
65	76	76	32	26	14	141	1438.9
70	76	76	32	26	14	151	1439.0
80	76	76	32	26	14	161	1439.1
90	76	76	32	26	14	171	1439.2
100	76	76	32	26	14	184	1439.3
110	76	76	32	26	14	199	1439.4
120	76	76	32	26	14	209	1439.5
130	76	76	32	26	14	219	1439.6
140	76	76	32	26	14	229	1439.7
150	76	76	32	26	14	239	1439.8
160	76	76	32	26	14	249	1439.9
170	76	76	32	26	14	259	1440.0
180	76	76	32	26	14	269	1440.1
190	76	76	32	26	14	279	1440.2
200	76	76	32	26	14	289	1440.3
210	76	76	32	26	14	299	1440.4
220	76	76	32	26	14	309	1440.5
230	76	76	32	26	14	319	1440.6
240	76	76	32	26	14	329	1440.7
250	76	76	32	26	14	339	1440.8
260	76	76	32	26	14	349	1440.9
270	76	76	32	26	14	359	1441.0
280	76	76	32	26	14	369	1441.1
290	76	76	32	26	14	379	1441.2
300	76	76	32	26	14	389	1441.3
310	76	76	32	26	14	399	1441.4
320	76	76	32	26	14	409	1441.5
330	76	76	32	26	14	419	1441.6
340	76	76	32	26	14	429	1441.7
350	76	76	32	26	14	439	1441.8
360	76	76	32	26	14	449	1441.9
370	76	76	32	26	14	459	1442.0
380	76	76	32	26	14	469	1442.1
390	76	76	32	26	14	479	1442.2
400	76	76	32	26	14	489	1442.3
410	76	76	32	26	14	499	1442.4
420	76	76	32	26	14	509	1442.5
430	76	76	32	26	14	519	1442.6
440	76	76	32	26	14	529	1442.7
450	76	76	32	26	14	539	1442.8
460	76	76	32	26	14	549	1442.9
470	76	76	32	26	14	559	1443.0
480	76	76	32	26	14	569	1443.1
490	76	76	32	26	14	579	1443.2
500	76	76	32	26	14	589	1443.3
510	76	76	32	26	14	599	1443.4
520	76	76	32	26	14	609	1443.5
530	76	76	32	26	14	619	1443.6
540	76	76	32	26	14	629	1443.7
550	76	76	32	26	14	639	1443.8
560	76	76	32	26	14	649	1443.9
570	76	76	32	26	14	659	1444.0
580	76	76	32	26	14	669	1444.1
590	76	76	32	26	14	679	1444.2
600	76	76	32	26	14	689	1444.3
610	76	76	32	26	14	699	1444.4
620	76	76	32	26	14	709	1444.5
630	76	76	32	26	14	719	1444.6
640	76	76	32	26	14	729	1444.7
650	76	76	32	26	14	739	1444.8
660	76	76	32	26	14	749	1444.9
670	76	76	32	26	14	759	1445.0
680	76	76	32	26	14	769	1445.1
690	76	76	32	26	14	779	1445.2
700	76	76	32	26	14	789	1445.3
710	76	76	32	26	14	799	1445.4
720	76	76	32	26	14	809	1445.5
730	76	76	32	26	14	819	1445.6
740	76	76	32	26	14	829	1445.7
750	76	76	32	26	14	839	1445.8
760	76	76	32	26	14	849	1445.9
770	76	76	32	26	14	859	1446.0
780	76	76	32	26	14	869	1446.1
790	76	76	32	26	14	879	1446.2
800	76	76	32	26	14	889	1446.3
810	76	76	32	26	14	899	1446.4
820	76	76	32	26	14	909	1446.5
830	76	76	32	26	14	919	1446.6
840	76	76	32	26	14	929	1446.7
850	76	76	32	26	14	939	1446.8
860	76	76	32	26	14	949	1446.9
870	76	76	32	26	14	959	1447.0
880	76	76	32	26	14	969	1447.1
890	76	76	32	26	14	979	1447.2
900	76	76	32	26	14	989	1447.3
910	76	76	32	26	14	999	1447.4
920	76	76	32	26	14	1009	1447.5
930	76	76	32	26	14	1019	1447.6
940	76	76	32	26	14	1029	1447.7
950	76	76	32	26	14	1039	1447.8
960	76	76	32	26	14	1049	1447.9
970	76	76	32	26	14	1059	1448.0
980	76	76	32	26	14	1069	1448.1
990	76	76	32	26	14	1079	1448.2
1000	76	76	32	26	14	1089	1448.3

BOT NUM = 1
BOT NUM = 2
BOT NUM = 3
BOT NUM = 4

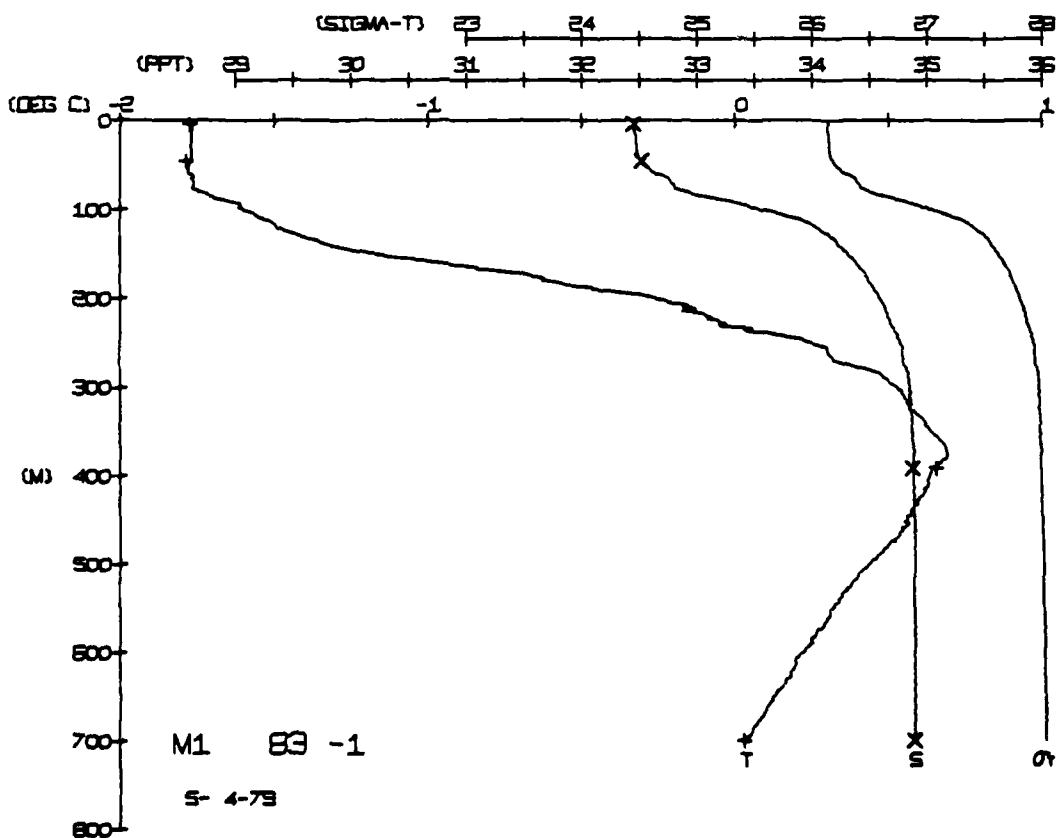
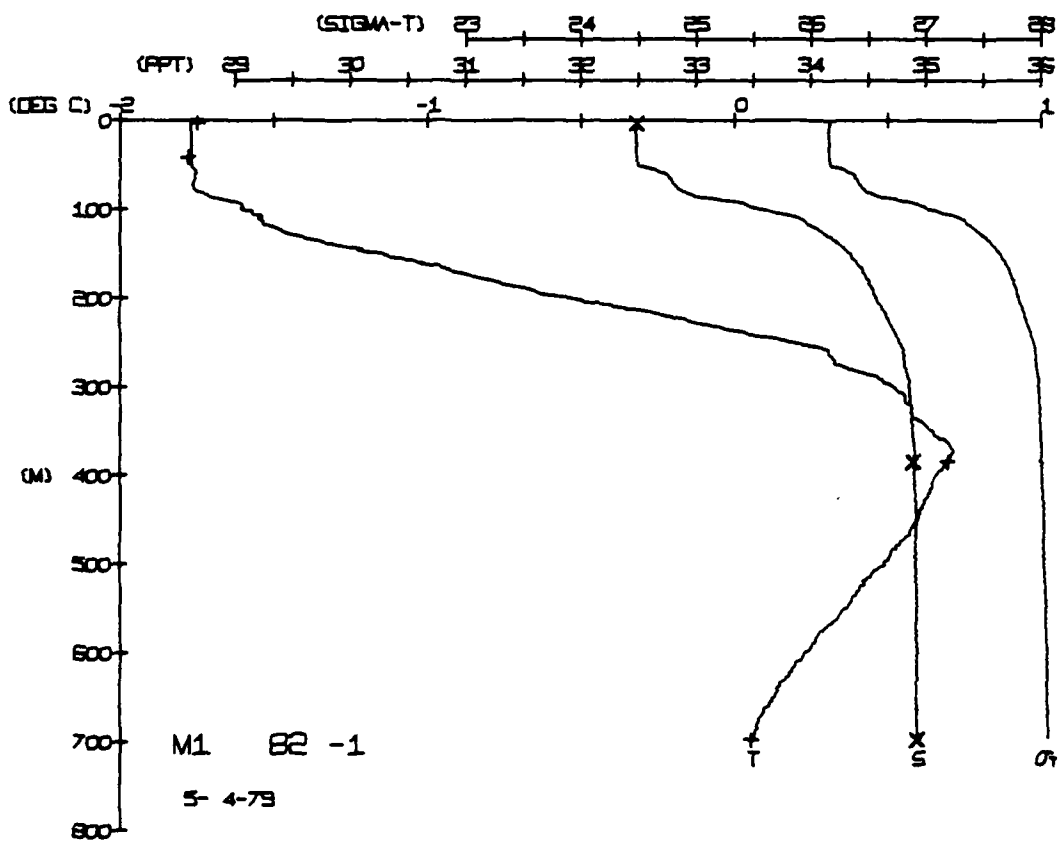
DEPTH 3.6
TEMP -1.76
SALIN 32.45

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVCL	DYHNT	SOUND
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0	77	77	32	26	14	009	1437.6
0	77	77	32	26	14	019	1437.7
10	77	77	32	26	14	039	1437.8
15	77	77	32	26	14	048	1437.9
20	77	77	32	26	14	057	1438.0
25	77	77	32	26	14	066	1438.1
30	77	77	32	26	14	076	1438.2
35	77	77	32	26	14	085	1438.3
40	77	77	32	26	14	094	1438.4
45	77	77	32	26	14	103	1438.5
50	77	77	32	26	14	112	1438.6
55	77	77	32	26	14	121	1438.7
60	77	77	32	26	14	131	1438.8
65	77	77	32	26	14	141	1438.9
70	77	77	32	26	14	151	1439.0
80	77	77	32	26	14	161	1439.1
90	77	77	32	26	14	171	1439.2
100	77	77	32	26	14	181	1439.3
110	77	77	32	26	14	195	1439.4
120	77	77	32	26	14	206	1439.5
130	77	77	32	26	14	210	1439.6
140	77	77	32	26	14	214	1439.7
150	77	77	32	26	14	218	1439.8
160	77	77	32	26	14	227	1439.9
170	77	77	32	26	14	237	1440.0
180	77	77	32	26	14	243	1440.1
190	77	77	32	26	14	246	1440.2
200	77	77	32	26	14	249	1440.3
210	77	77	32	26	14	250	1440.4
220	77	77	32	26	14	255	1440.5
230	77	77	32	26	14	258	1440.6
240	77	77	32	26	14	263	1440.7
250	77	77	32	26	14	268	1440.8
260	77	77	32	26	14	272	1440.9
270	77	77	32	26	14	276	1441.0
280	77	77	32	26	14	278	1441.1
290	77	77	32	26	14	281	1441.2
300	77	77	32	26	14	285	1441.3
310	77	77	32	26	14	289	1441.4
320	77	77	32	26	14	298	1441.5
330	77	77	32	26	14	300	1441.6
340	77	77	32	26	14	300	1441.7
350	77	77	32	26	14	300	1441.8
360	77	77	32	26	14	300	1441.9
370	77	77	32	26	14	300	1442.0
380	77	77	32	26	14	300	1442.1
390	77	77	32	26	14	300	1442.2
400	77	77	32	26	14	300	1442.3
410	77	77	32	26	14	300	1442.4
420	77	77	32	26	14	300	1442.5
430	77	77	32	26	14	300	1442.6
440	77	77	32	26	14	300	1442.7
450	77	77	32	26	14	300	1442.8
460	77	77	32	26	14	300	1442.9
470	77	77	32	26	14	300	1443.0
480	77	77	32	26	14	300	1443.1
490	77	77	32	26	14	300	1443.2
500	77	77	32	26	14	300	1443.3
510	77	77	32	26	14	300	1443.4
520	77	77	32	26	14	300	1443.5
530	77	77	32	26	14	300	1443.6
540	77	77	32	26	14	300	1443.7
550	77	77	32	26	14	300	1443.8
560	77	77	32	26	14	300	1443.9
570	77	77	32	26	14	300	1444.0
580	77	77	32	26	14	300	1444.1
590	77	77	32	26	14	300	1444.2
600	77	77	32	26	14	300	1444.3
610	77	77	32	26	14	300	1444.4
620	77	77	32	26	14	300	1444.5
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650	77	77	32	26	14	300	1444.8
660	77	77	32	26	14	300	1444.9
670	77	77	32	26	14	300	1445.0
680	77	77	32	26	14	300	1445.1
690	77	77	32	26	14	300	1445.2
700	77	77	32	26	14	300	1445.3
710	77	77	32	26	14	300	1445.4
720	77	77	32	26	14	300	1445.5
730	77	77	32	26	14	300	1445.6
740	77	77	32	26	14	300	1445.7
750	77	77	32	26	14	300	1445.8
760	77	77	32	26	14	300	1445.9
770	77	77	32	26	14	300	1446.0
780	77	77	32	26	14	300	1446.1
790	77	77	32	26	14	300	1446.2
800	77	77	32	26	14	300	1446.3
810	77	77	32	26	14	300	1446.4
820	77	77	32	26	14	300	1446.5
830	77	77	32	26	14	300	1446.6
840	77	77	32	26	14	300	1446.7
850	77	77	32	26	14	300	1446.8
860	77	77	32	26	14	300	1446.9
870	77	77	32	26	14	300	1447.0
880	77	77	32	26	14	300	1447.1
890	77	77	32	26	14	300	1447.2
900	77	77	32	26	14	300	1447.3
910	77	77	32	26	14	300	1447.4
920	77	77	32	26	14	300	1447.5
930	77	77	32	26	14	300	1447.6
940	77	77	32	26	14	300	1447.7
950	77	77	32	26	14	300	1447.8
960	77	77	32	26	14	300	1447.9
970	77	77	32	26	14	300	1448.0
980	77	77	32	26	14	300	1448.1
990	77	77	32	26	14	300	1448.2
1000	77	77	32	26	14	300	1448.3
1010	77	77	32	26	14	300	1448.4
1020	77	77	32	26	14	300	1448.5
1030	77	77	32	26	14	300	1448.6
1040	77	77	32	26	14	300	1448.7
1050	77	77	32	26	14	300	1448.8
1060	77	77	32	26	14	300	1448.9
1070	77	77	32	26	14	300	1449.0
1080	77	77	32	26	14	300	1449.1
1090	77	77	32	26	14	300	1449.2
1100	77	77	32	26	14	300	1449.3
1110	77	77	32	26	14	300	1449.4
1120	77	77	32	26	14	300	1449.5
1130	77	77	32	26	14	300	1449.6
1140	77	77	32	26	14	300	1449.7
1150	77	77	32	26	14	300	1449.8
1160	77	77	32	26	14	300	1449.9
1170	77	77	32	26	14	300	1450.0
1180	77	77	32	26	14	300	1450.1
1190	77	77	32	26	14	300	1450.2
1200	77	77	32	26	14	300	1450.3
1210	77	77	32	26	14	300	1450.4
1220	77	77	32	26	14	300	1450.5
1230	77	77	32	26	14	300	1450.6
1240	77	77	32	26	14	300	1450.7
1250	77	77	32	26	14	300	1450.8
1260	77	77	32	26	14	300	1450.9
1270	77	77	32	26	14	300	1451.0
1280	77	77	32	26	14	300	1451.1
1290	77	77	32	26	14	300	1451.2
1300	77	77	32	26	14	300	1451.3
1310	77	77	32	26	14	300	1451.4
1320	77	77	32	26	14	300	1451.5
1330	77	77	32	26	14	300	1451.6
1340	77	77	32	26	14	300	1451.7
1350	77	77	32	26	14	300	1451.8
1360	77	77	32	26	14	300	1451.9
1370	77	77	32	26	14	300	1452.0
1380	77	77	32	26	14	300	1452.1
1390	77	77	32	26	14	300	1452.2
1400	77	77	32	26	14	300	1452.3
1410	77	77	32	26	14	300	1452.4
1420	77	77	32	26	14	300	1452.5
1430	77	77	32	26	14	300	1452.6
1440	77	77	32	26	14	300	1452.7
1450	77	77	32	26	14	300	1452.8
1460	77	77	32	26	14	300	1452.9
1470	77	77	32	26	14	300	1453.0
1480	77	77	32	26	14	300	1453.1
1490	77	77	32	26	14	300	1453.2
1500	77	77	32	26	14	300	1453.3
1510	77	77	32	26	14	300	1453.4
1520	77	77	32	26	14	300	1453.5
1530	77	77	32	26	14	300	1453.6
1540	77	77	32	26	14	300	1453.7
1550	77	77	32	26	14	300	1453.8
1560	77	77	32	26	14	300	1453.9
1570	77	77	32	26	14	300	1454.0
1580	77	77	32	26	14	300	1454.1
1590	77	77	32	26	14	300	1454.2
1600	77	77	32	26	14	300	1454.3
1610	77	77	32	26	14	300	1454.4
1620	77	77	32	26	14	300	1454.5
1630	77	77	32	26	14	300	1454.6
1640	77	77	32	26	14	300	1454.7
1650	77	77	32	26	14	300	1454.8
1660	77	77	32	26	14	300	1454.9
1670	77	77	32	26	14	300	1455.0
1680	77	77	32	26	14	300	1455.1
1690	77	77	32	26	14	300	1455.2
1700	77	77	32	26	14	300	1455.3
1710	77	77	32	26	14	300	1455.4
1720	77	77	32	26	14	300	1455.5
1730	77	77	32	26	14	300	1455.6
1740	77	77	32	26	14	300	1455.7
1750	77	77	32	26	14	300	1455.8
1760	77	77	32	26	14	300	1455





[illegible][illegible]



FRAM 1 STATION 84(1) CTD 5/MAY/1979 756 GMT CODE = 1
 LAT = 83 8306N LNG = 6 9174W LTER = 0.0 LGER = 7.6
 AIR TEMP = -15.6 BAROM = 1027.5 WIND = 306.0 SPEED = 7.6

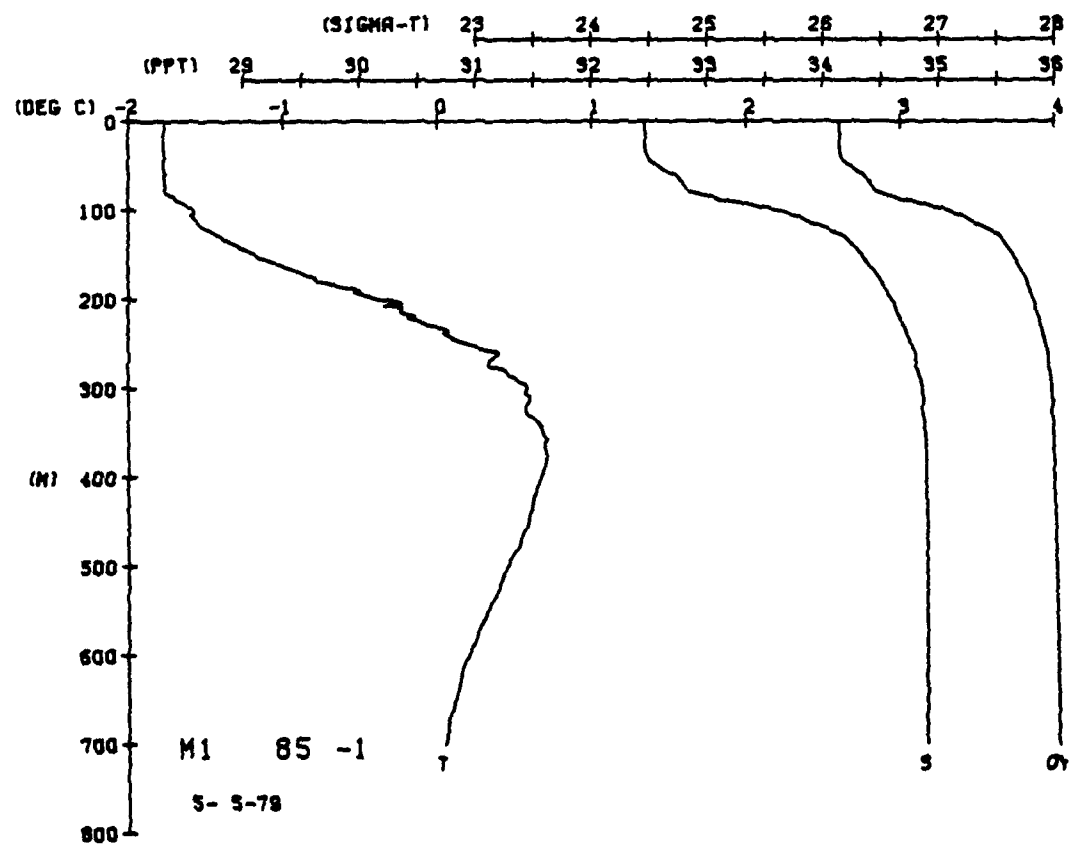
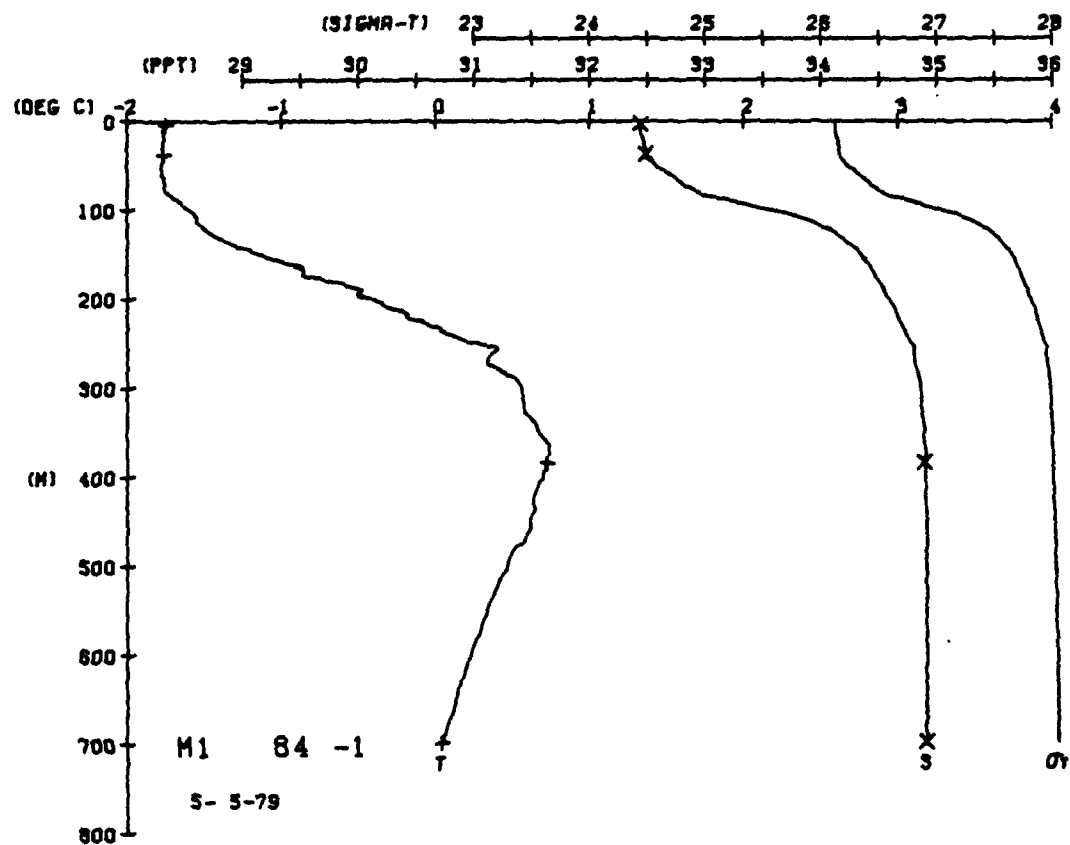
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31	77	77	32	26	189	0	1437
32	77	77	32	26	189	0	1437
33	77	77	32	26	189	0	1437
34	77	77	32	26	189	0	1437
35	77	77	32	26	189	0	1437
36	77	77	32	26	189	0	1437
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38	77	77	32	26	189	0	1437
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63	77	77	32	26	189	0	1437
64	77	77	32	26	189	0	1437
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66	77	77	32	26	189	0	1437
67	77	77	32	26	189	0	1437
68	77	77	32	26	189	0	1437
69	77	77	32	26	189	0	1437
70	77	77	32	26	189	0	1437

BOT NUM = 1
 BOT NUM = 2
 BOT NUM = 3
 BOT NUM = 4

FRAM 1 STATION 85(1) CTD 5/MAY/1979 1241 GMT CODE = 1
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 AIR TEMP = -13.9 BAROM = 1027.6 WIND = 310.0 SPEED = 8.9

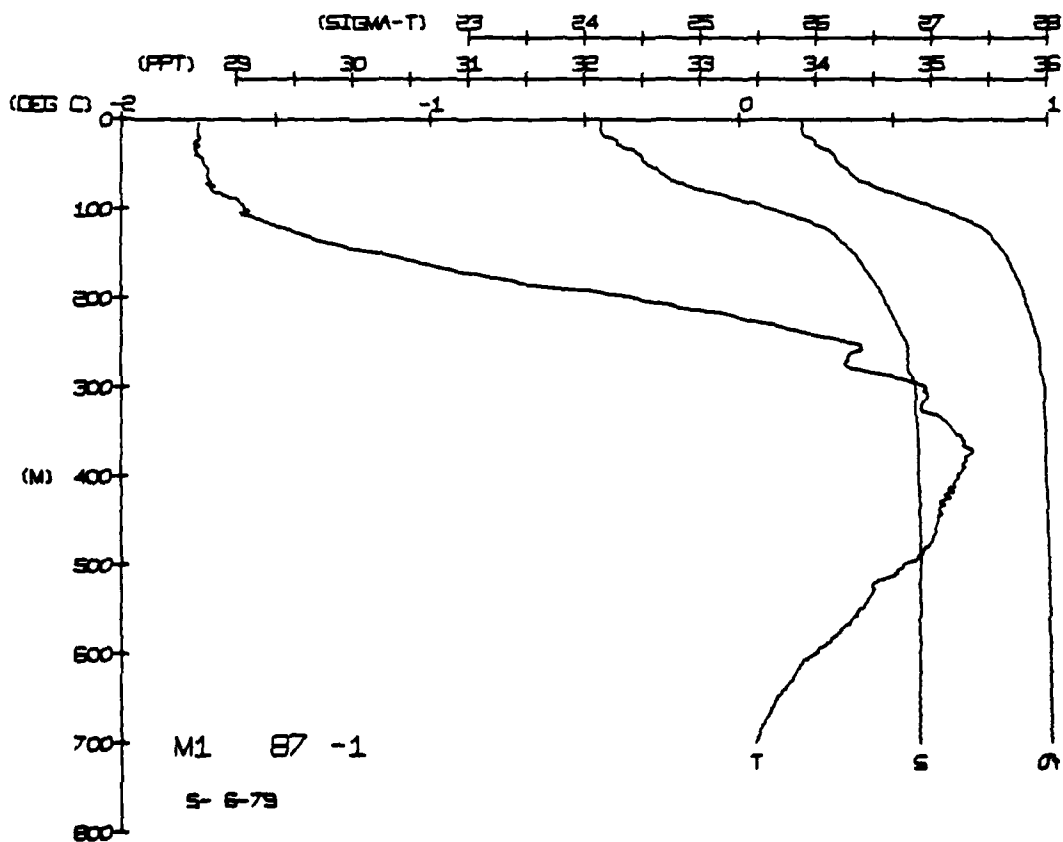
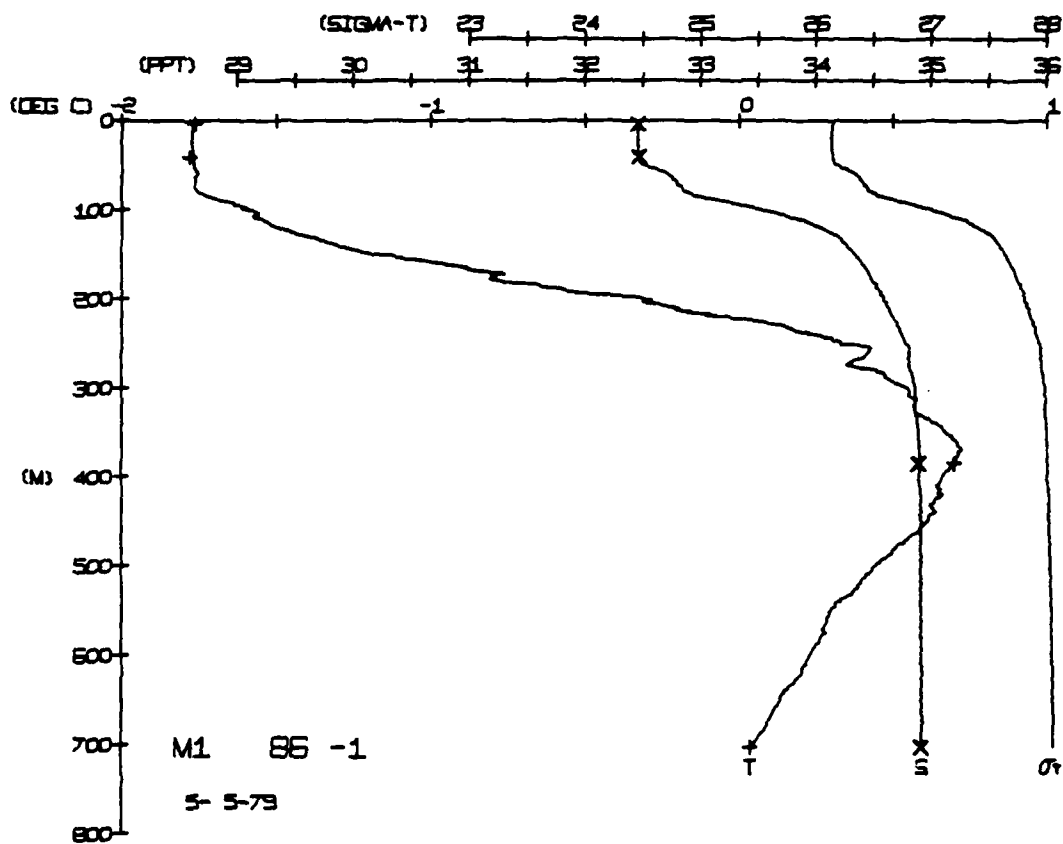
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DVHNT	SOUND
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3	77	77	32	26	189	0	1437
4	77	77	32	26	189	0	1437
5	77	77	32	26	189	0	1437
6	77	77	32	26	189	0	1437
7	77	77	32	26	189	0	1437
8	77	77	32	26	189	0	1437
9	77	77	32	26	189	0	1437
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DEPTH TEMP SALIN



FRAM 1 STATION 87(1) CTD 6/MAY/1979 703 GMT CODE = 1
LAT = 83 6941N LNG = 6 7673W LTER = 0 LGR = 0
AIR TEMP = -15.1 BAROM = 1024.5 WIND = 346 0 SPEED = 8.4

[illegible]



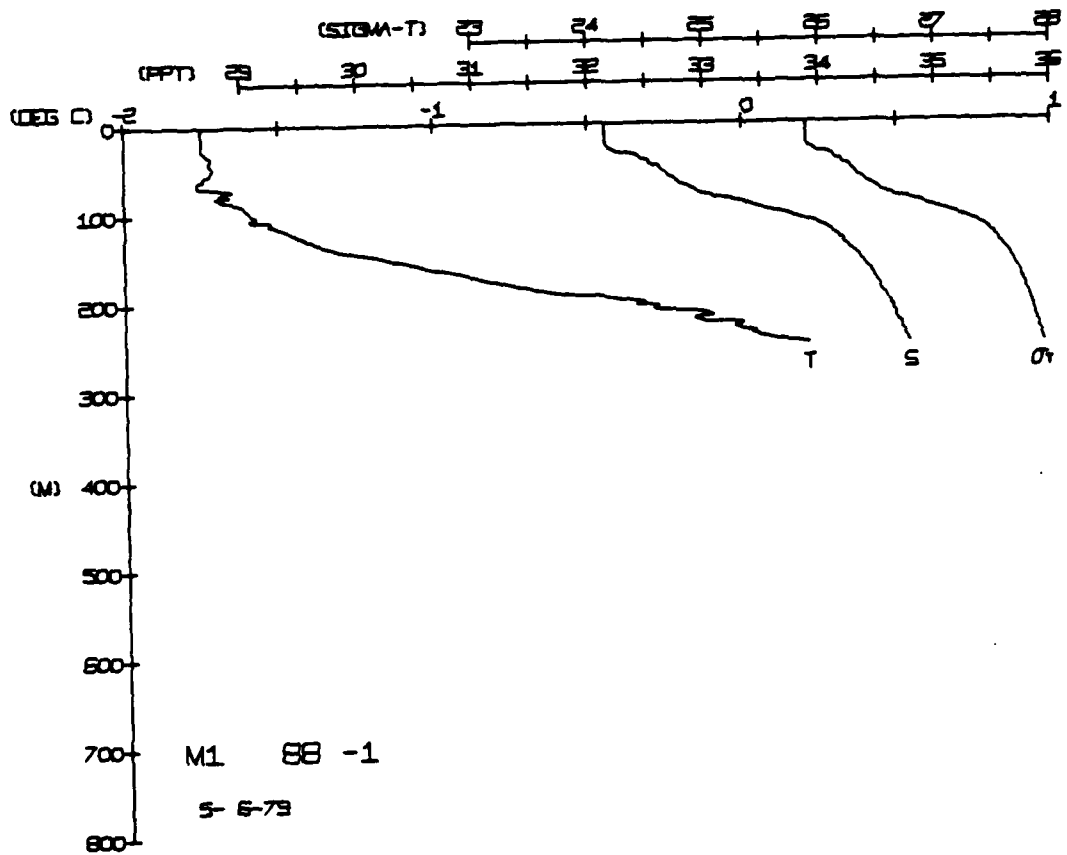
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DEPTH	TEMP	PIEMP	SALIN	SIG T	SPVOL	DYNHT	SOUND
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1 0	75	75	32	89	9	000	1437 1
2 0	75	75	32	89	9	000	1437 2
3 0	75	75	32	89	9	000	1437 3
4 0	75	75	32	89	9	000	1437 4
5 0	75	75	32	89	9	000	1437 5
6 0	75	75	32	89	9	000	1437 6
7 0	75	75	32	89	9	000	1437 7
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10 0	75	75	32	89	9	000	1437 0
11 0	75	75	32	89	9	000	1437 1
12 0	75	75	32	89	9	000	1437 2
13 0	75	75	32	89	9	000	1437 3
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17 0	75	75	32	89	9	000	1437 7
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27 0	75	75	32	89	9	000	1437 7
28 0	75	75	32	89	9	000	1437 8
29 0	75	75	32	89	9	000	1437 9
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49 0	75	75	32	89	9	000	1437 9
50 0	75	75	32	89	9	000	1437 0

DEPTH

TEMP

SALIN



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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) From April 29, 1979 to May 6, 1979 a total of 88 casts were made with a CTD (Conductivity, Temperature and Depth) instrument at the drifting ice station Fram I. Profiles were taken at least twice a day from the surface to 700 m and at more closely spaced intervals during special phases of the experiment. A separate helicopter C/STD survey was also conducted during the experiment, and the resulting data were reported separately. Data obtained from the camp-based Plessey 9040 CTD were simultaneously recorded digitally on magnetic tape and on analog charts. Profile data from		

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20.

the digital tapes were smoothed using a running average. Response time of the temperature sensor was corrected for thermal lag by varying a lag constant (τ) until descending and ascending parts of the cast on a T-S diagram were nearly congruent. No lag correction was applied to the conductivity data because of the rapid response time of the conductivity cell. A small drift that occurred when both sensors were stopped for bottle sampling was also taken into account during data reduction.

Static calibration of the temperature, conductivity and depth sensors was provided by bottle and reversing thermometer data. Least squares, best-fit polynomials, whose parameters were temperature (T), conductivity (C) and depth (D), converted the observed data to final data.

Standard level listings of temperature, potential temperature, salinity, sigma-t, specific volume anomaly, dynamic height and sound velocity are given for each cast along with plotted profiles of temperature, salinity and sigma-t. Nested profiles of temperature and salinity are also provided.

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